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U.S. Department  
of Transportation  
Federal Highway  
Administration

# Highway Safety Performance - 1989 Fatal and Injury Accident Rates on Public Roads in the United States

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April 1991

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Prepared by the Offices of  
Highway Safety and Highway  
Information Management

Publication Number  
FHWA-SA-92-003

A report of the Secretary of  
Transportation to the United  
States Congress pursuant to  
Section 207 of the Surface  
Transportation Assistance Act  
of 1982 (P.L. 97-424)

## FOREWORD

This report was prepared pursuant to Section 207 of the Surface Transportation Assistance Act of 1982 (P.L. 97-424) which reads as follows:

Sec. 207. The Secretary of Transportation shall prepare, publish, and submit to Congress not later than December 31 of each calendar year beginning after December 31, 1982, a report on the highway safety performance of each State in the preceding calendar year. Such report shall provide data on highway fatalities and injuries and motor vehicle accidents involving fatalities and injuries and travel in urban areas of each State for each system of highways and in rural areas of such State for each system of highways. Such report shall be in such form and contain such other information on highway accidents as will permit an evaluation and comparison of highway safety performance of the States. For purposes of this section (1) the systems of highways in a State are the Federal-Aid primary system, the Federal-Aid secondary system, the Federal-Aid urban system, and the Interstate System (as such terms are defined in section 101 of Title 23, United States Code) and the other highways in such State which are not on the Federal-Aid system, and (2) the terms "State," "rural areas," and "urban area" have the meaning such terms have under such section 101.

This is the eighth report to Congress under Section 207. The reports contain an extension of a series of statistical data published annually since 1967 by the Federal Highway Administration (FHWA) as "Fatal and Injury Accident Rates on Federal-Aid and Other Highway Systems," until 1982 when it assumed its present title. The series has been a cooperative effort of the FHWA's former Office of Traffic Operations, and Offices of Highway Safety, and Highway Information Management. The Office of Highway Information Management is the former Office of Highway Planning, Highway Statistics Division. The States have provided the data for this series through the Highway Performance Monitoring System (HPMS), and its predecessors, administered by the Office of Highway Information Management. Data from the Fatal Accident Reporting System (FARS) administered by the National Highway Traffic Safety Administration (NHTSA) have been used to verify the HPMS data.

## SUMMARY

This report presents data which can be used in the evaluation of the highway safety performance of the States. The data were submitted by the States through the Highway Performance Monitoring System operated by the Federal Highway Administration. The traffic accident statistics for 1989 show a decrease of about 1500 fatalities from 1988. A disproportionate share of these fatalities occurred on Federal-Aid Secondary and non-Federal-Aid rural highways. The overall fatality rate per 100 million vehicle miles of travel was 2.16, which was lower than the record low of 2.32 set in 1988.

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# **HIGHWAY SAFETY PERFORMANCE - 1989**

Fatal and Injury Accident Rates on Public  
Roads in the United States

Report of the Secretary of Transportation  
to the United States Congress

Pursuant to  
Section 207 of the Surface  
Transportation Assistance Act of 1982 (P.L. 97-424)

April 1991

Prepared by the Offices of Highway Safety  
and Highway Information Management

**U.S. DEPARTMENT OF TRANSPORTATION**  
**Federal Highway Administration**  
Washington, D.C. 20590



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# HIGHWAY SAFETY PERFORMANCE - 1989

## SECTION I - INTRODUCTION

### A. Purpose of Report

In response to the Congressional direction given in the Surface Transportation Assistance Act of 1982, this report provides motor vehicle traffic accident data which may be used, together with other relevant information, in evaluating and comparing the highway safety performance of the States. It is not the purpose of this report to present either a detailed analysis of the data or a completed evaluation or comparison of State highway safety performance. The text of the report is primarily technical detail and background information which may assist those who analyze or interpret the statistical tables and graphs.

### B. Terminology

Definitions serve to describe terms which are not in common use and to clarify the intended meaning of familiar terms which may be ambiguous. Interpretation of laws is greatly facilitated by the use of carefully defined terminology. Similarly, the interpretation of statistics is dependent upon an understanding of the terminology used in the collection and processing of the data. Such an understanding is particularly important when statistics from two or more sources are combined or compared. For this reason, an explanation of pertinent terminology precedes the statistical data in this report.

The two primary sources for the definitions which follow are Section 101 of Title 23 of the United States Code and the Manual on Classification of Motor Vehicle Traffic Accidents (ANSI D16.1-1989). The accident data in this report have been collected and processed by thousands of persons in State and local agencies and deviations from the standard definitions are not unusual. Most of the deviations are relatively minor, but some are not. Users of accident statistics should be constantly alert to the fact that statistical differences may reflect differences in terminology rather than differences in accident experience.

Terms used in this report are defined as follows:

A motor vehicle traffic accident is an accident involving a motor vehicle in use within the right-of-way or other boundaries of a trafficway open for the use of the public.

An injury is any bodily harm received by a person in a motor vehicle traffic accident.

A fatal injury is any injury that results in death.

A nonfatal injury is any injury other than a fatal injury.

A fatal accident is a motor vehicle traffic accident resulting in one or more fatal injuries.

A nonfatal accident is a motor vehicle traffic accident that results in one or more injuries, but no fatal injuries.

A fatality is the death of any person who suffers a fatal injury. For its statistics on motor vehicle traffic fatalities, the Department of Transportation uses a 30-day counting rule, including only those deaths which occur within 30 days of the fatal injury. Approximately two percent of traffic fatalities occur later.

A nonfatally injured person is one who suffers a nonfatal injury in either a fatal accident or a nonfatal injury accident.

Vehicle miles are the miles of travel by all types of motor vehicles, as determined by the State highway departments on the basis of actual traffic counts and established estimating procedures.

The fatal accident rate, nonfatal injury accident rate, fatality rate, and nonfatal injury rate are, respectively, the number of fatal accidents, nonfatal injury accidents, fatalities, and nonfatally injured persons per 100 million vehicle miles of travel.

An urban highway is any road or street within the boundaries of an urban area. An urban area is an area including and adjacent to a municipality or urban place with 5,000 or more population. The boundaries of urban areas are fixed by the State highway departments, subject to the approval of the Federal Highway Administration, for purposes of the Federal-Aid highway program.

A rural highway is any road or street which is not an urban highway.

Travel density is the average number of vehicle miles driven on a section of highway each day divided by the length of the section in miles. It is expressed as a number of vehicles and may be referred to as average daily traffic (ADT).

The provisional rate-density relationship is the relationship between fatality rates and average daily traffic. It is based on data for the 4-year period preceding the calendar year for which detailed data are reported. It is labelled "provisional" to make it clear that it is to be used as a guide rather than a standard. A provisional rate-density relationship may be described graphically or mathematically by a rate-density curve.

A provisional range for a given period of time is based on a provisional rate-density relationship and the volume of travel. The provisional range indicates--for an appropriate volume of travel--the amount of deviation from

fatality rates on a rate-density curve which might be expected if the deviation were random.

The characteristics of the functional classes of highways referred to in this compilation of statistical data are briefly described as follows:

Arterial highways serve major traffic movements or major traffic corridors. While they may provide access to abutting land, their primary function is to serve traffic moving through the area.

Local highways are those roads and streets whose principal function is to provide direct access to abutting land.

Collector highways are those highways which link local highways to arterial highways.

The characteristics of the several Federal-Aid highway systems referred to in this report are briefly described as follows:

Federal-Aid Primary, Secondary, and Urban highway systems are those for which Federal-Aid highway matching funds may be spent by the State.

The Federal-Aid Primary system is a system of connected main roads important to interstate, statewide, and regional travel, consisting of rural arterial routes and their extensions into or through urban areas.

The Interstate System is a part of the Federal-Aid Primary system. It is a system of freeways (i.e., expressways with fully controlled access) connecting and serving the principal cities of the United States.

The Federal-Aid Secondary system consists of rural major collector routes.

The Federal-Aid Urban system consists of urban arterial and collector routes, exclusive of urban extensions of the Federal-Aid Primary system.

The fatality statistics in this report differ somewhat from those reported elsewhere. For its motor vehicle traffic fatality statistics, the Department of Transportation (DOT) uses a 30-day counting rule.<sup>1</sup> Under this rule, deaths resulting from an accident are counted only if they occur within 30 days of the accident. Traffic fatalities are listed by the time and place of the fatal accident. Similar statistics published by the National Center for Health Statistics (NCHS) are listed by the time of death and place of residence of the deceased, using a 12-month counting rule.

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<sup>1</sup> Federal Highway Administration/National Highway Traffic Safety Administration; "Highway Fatality Counting Rule"; Federal Register, Volume 43, No. 191; pp. 45486-45488; October 2, 1978.



Another difference in the reporting of fatalities which result from motor vehicle accidents is the treatment of deaths resulting from nontraffic accidents. Examples of motor vehicle nontraffic accidents are those which occur in the driveways of private homes or in other locations outside the rights-of-way or other boundaries of roads which are open for public use. Annual motor vehicle fatality figures for the United States reported by NCHS and the National Safety Council (NSC) generally include about 1,000 nontraffic fatalities--deaths which are not included in DOT reports.

The number of nonfatally injured persons is also counted in a variety of ways. In this publication the number of injured persons is the number reported by police. The NSC, for comparability with injuries from industrial and other accidents, reports the number of persons disabled beyond the day of the accident. Another approach is taken in the National Health Survey by the Bureau of Census. In the National Health Survey, the estimated number of injuries is based on responses to household interviews. National Health Survey injury figures tend to be about twice as high as those reported by NSC. The police-reported figures used in this publication are midway between the others.

### **C. Highway Safety Performance in 1989**

The traffic accident statistics for 1989 show a decrease of about 1500 fatalities from 1988. A disproportionate share of these fatalities occurred on Federal-Aid Secondary and non-Federal-Aid rural highways. The overall fatality rate per 100 million vehicle miles of travel was 2.16, which was lower than the record low of 2.32 set in 1988.

Table 1 contains travel and accident data by highway system for the United States. It is a summary of the detailed data contained in Tables 2 through 6. Estimates have been included where data reported by the States were incomplete. Only one State, Tennessee, was unable to submit any nonfatal injury accident data in time for inclusion in this report.

The data permit comparison of numbers and rates (per 100 million vehicle miles) for accidents and casualties on Federal-Aid and other highway systems. Fatality rates on the Interstate System are less than half of that for other highway systems, even though a little more than one-fifth of all highway travel in the United States occurs on the Interstate System.

Table 2 contains a summary of travel and accident data, including pedestrian data, by State. Pedestrian fatality rates have dropped to an average of 0.33 (per 100 million vehicle miles) over a 3-year period. The pedestrian injury rate declined by about 4 percent each year from 1986. The data are presented in greater detail in Tables 3 through 6. The number of pedestrians injured, fatally or nonfatally, are reported for each State together with pedestrian injury rates.

**TABLE 1. U.S. VEHICLE MILE RATES BY HIGHWAY SYSTEM - 1989<sup>1</sup>**

HIGHWAY SYSTEM	HIGHWAY MILES 2/	VEHICLE MILES (MILLIONS) 2/	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS 4/		FATALITIES		NONFATAL INJURED PERSONS 4/	
				NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/
INTERSTATE (ARTERIAL)											
RURAL	33,378	191,120	15,687	2,291	1.20	46,658	24.41	2,696	1.41	76,338	39.94
URBAN	11,471	270,652	64,642	2,090	0.77	128,965	47.65	2,507	0.85	185,858	68.67
TOTAL	44,849	461,772	28,209	4,381	0.95	175,623	38.03	5,003	1.08	262,196	56.78
OTHER FEDERAL-AID PRIMARY (ARTERIAL)											
RURAL	225,741	317,837	3,857	8,511	2.68	211,965	66.69	10,042	3.16	357,243	112.40
URBAN	33,464	266,443	21,814	3,820	1.43	312,246	117.19	4,199	1.58	493,088	185.06
TOTAL	259,205	584,280	6,176	12,331	2.11	524,211	89.72	14,241	2.44	850,331	145.53
FEDERAL-AID URBAN											
ARTERIAL	92,289	388,664	11,538	7,074	1.82	616,472	158.61	7,625	1.96	951,259	244.75
COLLECTOR	55,615	74,688	3,679	1,149	1.54	118,018	158.01	1,232	1.65	173,402	232.17
TOTAL (ALL URBAN)	147,904	463,352	8,583	8,223	1.77	734,490	158.52	8,857	1.91	1,124,661	242.72
FEDERAL-AID SECONDARY (COLLECTOR)											
TOTAL (ALL RURAL)	399,756	179,300	1,229	5,887	3.28	181,613	101.29	6,724	3.75	285,333	159.14
NON-FEDERAL-AID ARTERIAL											
RURAL	2,537	4,782	5,164	101	2.11	2,124	44.42	130	2.72	3,619	75.68
URBAN	8,064	28,707	9,753	265	0.92	19,379	67.51	297	1.03	29,565	102.99
TOTAL	10,601	33,489	8,655	366	1.09	21,503	64.21	427	1.28	33,184	99.09
NON-FEDERAL-AID COLLECTOR											
RURAL	330,852	55,967	463	1,768	3.16	80,007	142.95	1,936	3.46	123,309	220.32
URBAN	22,859	26,571	3,185	272	1.02	20,644	77.69	283	1.07	29,881	111.70
TOTAL	353,711	82,538	639	2,040	2.47	100,651	121.95	2,219	2.69	152,990	185.36
NON-FEDERAL-AID LOCAL											
RURAL	2,130,460	99,877	128	4,158	4.16	211,088	211.35	4,529	4.53	312,083	312.47
URBAN	530,015	202,431	1,046	3,332	1.65	435,157	214.97	3,555	1.76	622,878	307.70
TOTAL	2,660,475	302,308	311	7,490	2.48	646,245	213.77	8,084	2.67	934,961	309.27
ALL FEDERAL-AID											
RURAL	658,875	688,257	2,862	16,689	2.42	440,236	63.96	19,462	2.83	718,914	104.45
URBAN	192,839	1,000,447	14,214	14,133	1.41	1,175,701	117.52	15,363	1.54	1,803,607	180.28
TOTAL	851,714	1,688,704	5,432	30,822	1.83	1,615,937	95.69	34,825	2.06	2,522,521	149.38
ALL NON-FEDERAL-AID											
RURAL	2,463,849	160,626	179	6,027	3.75	293,219	182.55	6,595	4.11	439,011	273.31
URBAN	560,938	257,709	1,259	3,869	1.50	475,180	4.135	4,135	1.60	682,124	264.69
TOTAL	3,024,787	418,335	379	9,896	2.37	768,399	183.68	10,730	2.56	1,121,135	268.00
NON-INTERSTATE											
RURAL	3,089,346	657,763	583	20,425	3.11	686,797	104.41	23,361	3.55	1,081,587	164.43
URBAN	742,305	987,504	3,645	15,912	1.61	1,521,916	154.12	17,191	1.74	2,299,873	232.90
TOTAL	3,831,652	1,645,267	1,176	36,337	2.21	2,208,713	134.25	40,552	2.46	3,381,460	205.53
TOTAL											
RURAL	3,122,724	848,883	745	22,716	2.68	733,455	86.40	26,057	3.07	1,157,925	136.41
URBAN	753,777	1,258,156	4,573	18,002	1.43	1,650,881	131.21	19,498	1.55	2,485,731	197.57
TOTAL	3,876,501	2,107,039	1,489	40,718	1.93	2,384,336	113.16	45,555	2.16	3,643,656	172.93

1/ U.S. ESTIMATES EXCLUDE THE COMMONWEALTH OF PUERTO RICO AND THE TERRITORIES OF AMERICAN SAMOA, GUAM, AND VIRGIN ISLANDS. ESTIMATES FOR NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS ARE BASED ON THE PARTIAL DATA REPORTED BY STATES WHICH ARE DISPLAYED IN THE FOLLOWING TABLES, TOGETHER WITH TOTALS REPORTED BY MOST STATES.

2/ MILEAGE AND TRAVEL DATA ARE FROM THE HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS) FOR 1989. FEDERAL-AID HIGHWAY MILEAGE IS FROM HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1990 AND VEHICLE MILES OF TRAVEL

ARE FROM THE HPMS AREAWIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1990. FEDERAL HIGHWAY ADMINISTRATION ESTIMATES WERE MADE FOR MAJOR HIGHWAY CATEGORIES WHERE COMPLETE FUNCTIONAL OR FEDERAL-AID SYSTEM DATA WERE NOT REPORTED.

3/ RATES ARE PER 100 MILLION VEHICLE MILES.

4/ ESTIMATES OF NONFATAL INJURED PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA FOR TENNESSEE.



# TABLE 2. STATE ACCIDENT SUMMARY - 1989

STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES		NONFATAL INJURED PERSONS		FATAL INJURED PEDESTRIANS		NONFATAL INJURED PEDESTRIANS	
			NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/
ALABAMA	90,535	40,765	918	2.25	28,347	69.54	1,029	2.52	41,824	102.60	82	0.20	751	1.84
ALASKA	12,272	3,887	79	2.03	3,623	93.21	84	2.16	5,550	142.78	11	0.28	196	5.04
ARIZONA	57,398	34,816	770	2.21	37,837	108.68	879	2.52	61,578	176.87	125	0.36	1,328	3.81
ARKANSAS	77,122	20,414	577	2.83	11,686	57.25	647	3.17	21,593	105.78	55	0.27	719	3.52
CALIFORNIA	164,291	251,482	4,877	1.94	236,831	94.17	5,412	2.15	363,645	144.60	984	0.39	18,210	7.24
COLORADO	77,361	27,577	482	1.75	24,508	88.87	528	1.91	88,871	136.20	55	0.20	867	3.14
CONNECTICUT	19,914	26,183	379	1.45	32,682	124.82	406	1.55	46,542	177.76	17	0.26	1,335	5.10
DELAWARE	5,417	6,446	108	1.68	6,842	99.06	116	1.80	9,036	140.18	17	0.26	270	4.19
DISC. OF COL.	1,102	3,414	70	2.05	9,003	263.71	72	2.11	12,964	379.73	30	0.88	1,130	33.10
FLORIDA	107,955	108,877	2,685	2.47	141,678	130.13	2,982	2.74	230,000	211.25	655	0.60	8,494	7.90
GEORGIA	108,010	75,705	1,422	1.88	65,279	86.23	1,632	2.16	101,256	133.75	214	0.28	2,576	3.40
HAWAII	4,082	7,749	129	1.88	8,682	114.61	149	2.16	12,710	164.00	30	0.39	600	7.74
IDAHO	61,317	8,422	212	2.52	6,901	81.94	238	2.83	10,916	129.61	12	0.14	229	2.72
ILLINOIS	135,878	81,297	1,545	1.90	118,173	145.36	1,748	2.15	174,861	215.09	283	0.35	10,472	12.88
INDIANA	91,744	56,192	882	1.57	61,760	109.91	971	1.73	75,735	134.78	77	0.14	1,889	3.36
IOWA	112,551	22,571	451	2.00	19,568	86.70	514	2.28	28,037	124.22	40	0.18	831	3.68
KANSAS	133,156	21,913	371	1.69	21,461	97.94	428	1.95	32,066	146.33	33	0.15	1,167	5.33
KENTUCKY	69,711	32,165	686	2.13	35,507	110.39	772	2.40	54,115	168.24	69	0.21	1,426	4.43
LOUISIANA	58,521	37,914	778	2.05	40,233	108.12	874	2.31	67,434	177.86	138	0.21	1,955	7.39
MAINE	22,240	11,739	178	1.52	12,871	109.64	193	1.64	18,627	158.68	25	0.21	408	3.48
MARYLAND	28,495	38,922	654	1.68	50,270	129.16	726	1.87	80,245	206.17	137	0.35	3,893	10.00
MASSACHUSETTS	33,807	46,214	638	1.38	73,276	158.56	700	1.51	92,156	199.41	141	0.31	3,118	6.75
MICHIGAN	117,336	79,890	1,464	1.83	104,483	130.41	1,631	2.04	158,223	196.05	188	0.24	3,656	4.56
MINNESOTA	129,553	37,393	536	1.44	31,576	84.44	604	1.82	45,404	121.42	67	0.18	1,578	4.22
MISSISSIPPI	72,312	22,895	621	2.71	12,992	56.75	726	3.17	24,208	105.73	68	0.30	450	1.97
MISSOURI	120,077	48,087	936	1.95	44,592	92.73	1,052	2.19	68,573	142.60	90	0.19	2,145	4.46
MONTANA	71,360	8,250	163	1.98	5,731	69.47	181	2.19	8,653	104.88	20	0.24	203	2.46
NEBRASKA	92,459	13,781	257	1.86	15,499	112.47	296	2.15	23,089	167.54	27	0.20	591	4.29
NEVADA	44,856	9,408	276	2.93	12,552	133.61	308	3.27	18,628	198.00	36	0.38	678	7.21
NEW HAMPSHIRE	14,803	9,819	165	1.68	6,225	63.40	187	1.90	9,037	92.04	10	0.10	370	3.77
NEW JERSEY	34,246	59,898	814	1.36	100,717	168.15	891	1.49	159,699	266.62	217	0.36	7,059	11.79
NEW MEXICO	54,807	15,839	469	2.96	16,088	101.57	538	3.40	24,965	157.82	85	0.54	654	4.13
NEW YORK	110,964	106,059	2,075	1.96	203,556	191.93	2,257	2.13	298,629	281.57	580	0.55	22,223	20.95
NORTH CAROLINA	94,228	60,877	1,321	2.17	76,863	126.26	1,471	2.42	122,878	201.85	203	0.33	2,810	4.82
NORTH DAKOTA	86,384	5,849	76	1.30	3,421	58.49	81	1.36	4,869	83.24	10	0.17	110	1.86
OHIO	113,439	84,418	1,574	1.86	127,566	151.11	1,772	2.10	213,272	252.84	199	0.24	4,700	5.57
OKLAHOMA	111,669	32,836	569	1.73	22,716	69.18	648	1.97	35,286	107.46	62	0.19	610	1.86
OREGON	95,430	25,820	546	2.11	23,242	90.02	626	2.42	37,140	143.84	53	0.21	537	2.08
PENNSYLVANIA	116,277	83,855	1,714	2.04	98,511	117.48	1,877	2.24	152,589	181.97	247	0.29	6,769	8.07
RHODE ISLAND	5,884	6,740	97	1.44	6,992	103.74	100	1.48	8,646	128.28	13	0.19	213	3.16
SOUTH CAROLINA	64,104	32,780	895	2.73	30,963	94.46	996	3.04	49,905	152.24	120	0.37	987	3.01
SOUTH DAKOTA	73,378	6,704	134	2.00	4,605	68.69	152	2.27	6,827	101.83	10	0.15	128	1.88
TEXAS	84,081	45,639	977	2.14	46,805	102.55	1,088	2.38	72,167	158.13	87	0.19	1,600	3.51
UTAH	305,692	159,512	2,923	1.83	153,358	96.14	3,357	2.10	243,030	152.36	483	0.30	5,444	3.41
VERMONT	42,971	13,915	269	1.93	16,700	120.01	303	2.18	22,979	165.14	39	0.28	2,012	14.46
VIRGINIA	14,093	5,765	109	1.89	4,935	65.60	116	2.01	7,411	128.55	10	0.17	249	4.32
WASHINGTON	67,282	59,337	918	1.55	53,723	90.54	1,004	1.89	79,410	139.83	140	0.24	2,158	3.63
WEST VIRGINIA	81,439	43,233	695	1.61	52,671	121.83	781	1.81	73,992	171.15	109	0.25	1,789	4.14
WISCONSIN	34,477	14,940	406	2.72	15,393	103.03	468	3.13	28,353	189.78	32	0.21	523	3.50
WYOMING	109,813	43,086	712	1.65	42,673	99.04	817	1.90	62,108	144.15	68	0.15	2,220	5.15
	39,541	5,750	114	1.98	3,355	58.35	127	2.21	5,235	91.04	3	0.05	102	1.77
TOTAL	3,876,501	2,107,039	40,718	1.93	2,384,336	113.16	45,555	2.16	3,643,656	172.93	6,553	0.31	133,211	6.32

PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA.

1/ PER 100 MILLION VEHICLE MILES.  
2/ ESTIMATES OF NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED

## **D. National Trends**

From a rate of more than 18 fatalities per 100 million vehicle miles in the mid-1920's the average rate has gone down more than 3 percent per year to a record low rate of 2.16.

Figures 2 and 3 graphically illustrate national traffic fatality and injury rate trends from 1967 through 1989 for Interstate and other highway systems. Fatality rate trends were gradually downward for all systems through 1986. Although these trends were interrupted by relatively stable periods following a sharp drop in 1974, the downward movement resumed in 1981. In 1987 and 1988, fatality rates for rural Interstates rose and at the same time the fatality rates for urban roads off the Interstate system declined. In 1989, roads off the Interstate system in urban and rural areas reached an all time low fatality rate of 1.74 and 3.55, respectively. The rural Interstate fatality rate declined again in 1989 to 1.41, slightly below the rate of 1987. The urban Interstate fatality rate remained nearly constant. Trends for reported injury rates have also been generally downward during the 1967-1989 period.

Figures 4 and 5 illustrate national fatality and injury rate trends from 1978 through 1989 by highway system. In the mid-1970's, non-Interstate Federal-Aid highway systems were realigned by adopting functional classifications as the basis for assignment of highways to each system. As a result of these changes, trend data are only available for a short period for most systems. The time period covered in Figures 4 and 5 corresponds largely with the period of relative trend stability which is apparent in Figures 2 and 3.

There were decreases in fatality rates for all highways except urban Other Federal-Aid Primary roads, which increased slightly from their 1988 levels. The most substantial decrease was observed in the fatality rate for rural non-Federal-Aid highways, falling from 4.82 in 1988 to 4.11 in 1989.

In 1988, 40 States had raised their speed limit on certain rural Interstate roads from 55 mph to 65 mph as allowed by the Surface Transportation and Uniform Relocation Assistance Act of 1987, enacted April 2, 1987. The National Highway Traffic Safety Administration reported in October 1989 in an evaluation of the effects of the higher speed limit that about one-third of the fatality increase on rural Interstates is attributed to greater vehicle miles of travel, and the remainder of the increase is attributed to other factors including greater speed.

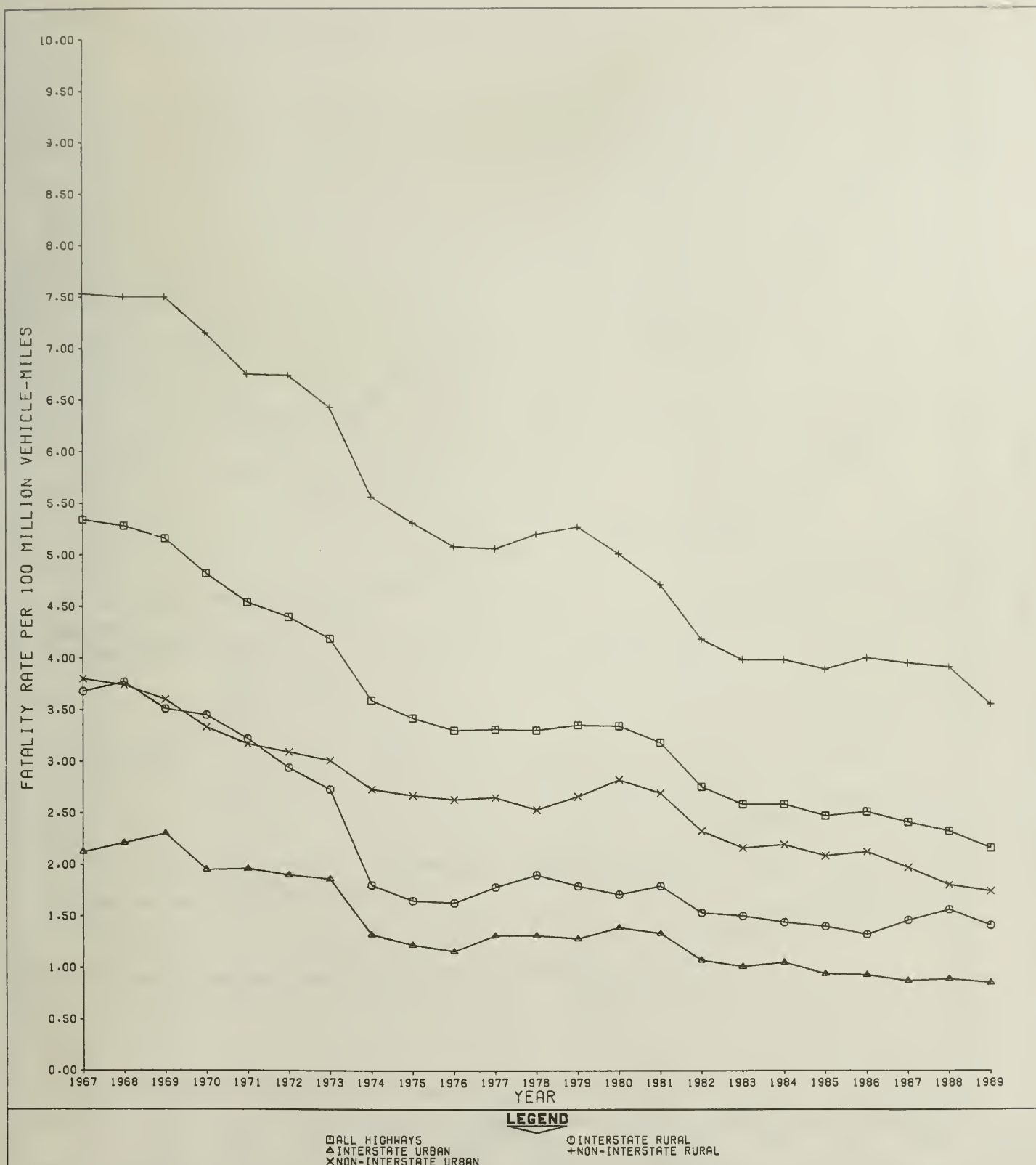
The 1967 through 1981 data used in Figures 3 through 6 were published in the annual Federal Highway Administration reports, "Fatal and Injury Accidents on Federal-Aid and Other Highway Systems."



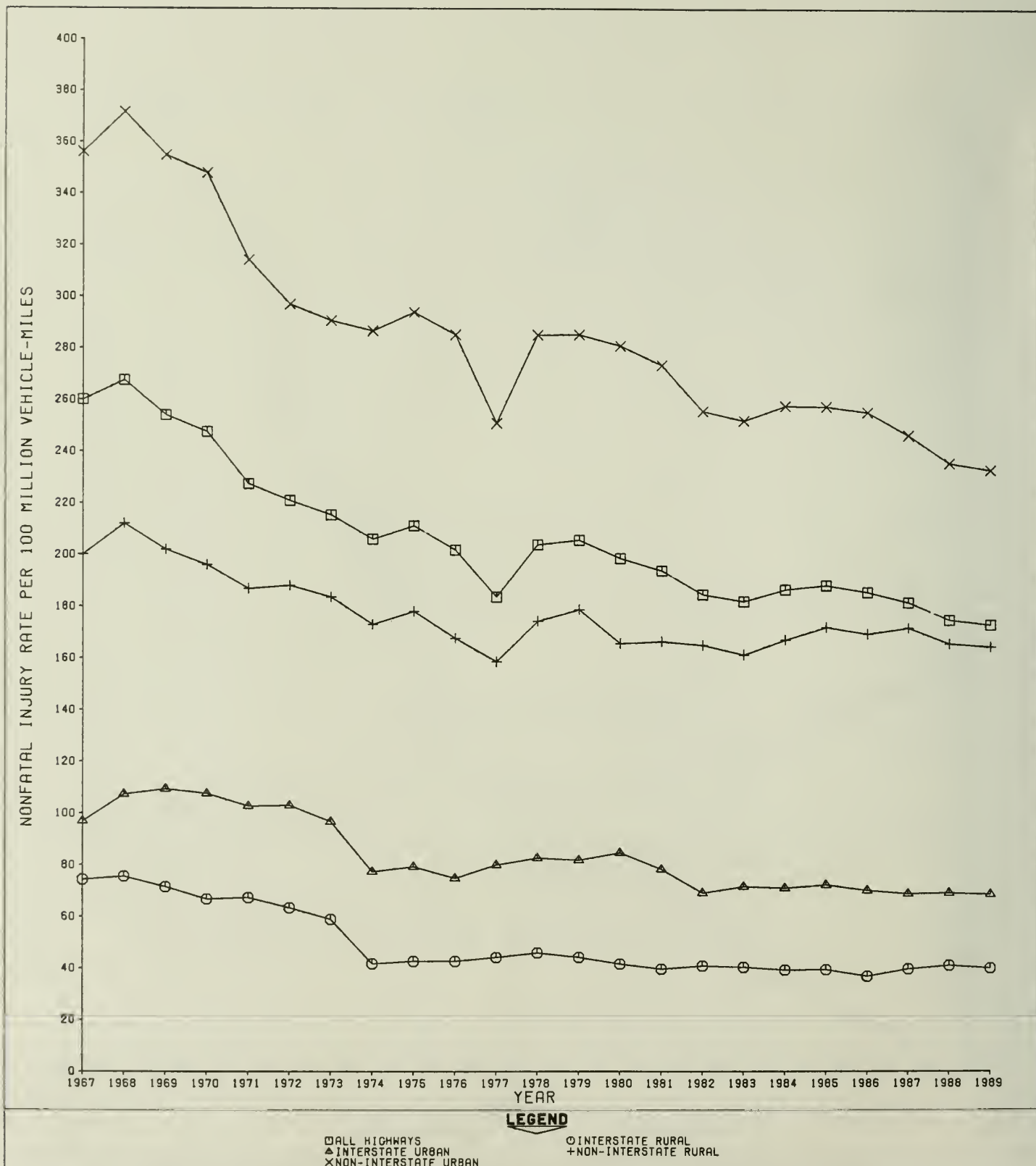
**FIGURE 1. U.S. MOTOR VEHICLE TRAFFIC FATALITY RATES**

**(1925 - 1989)**



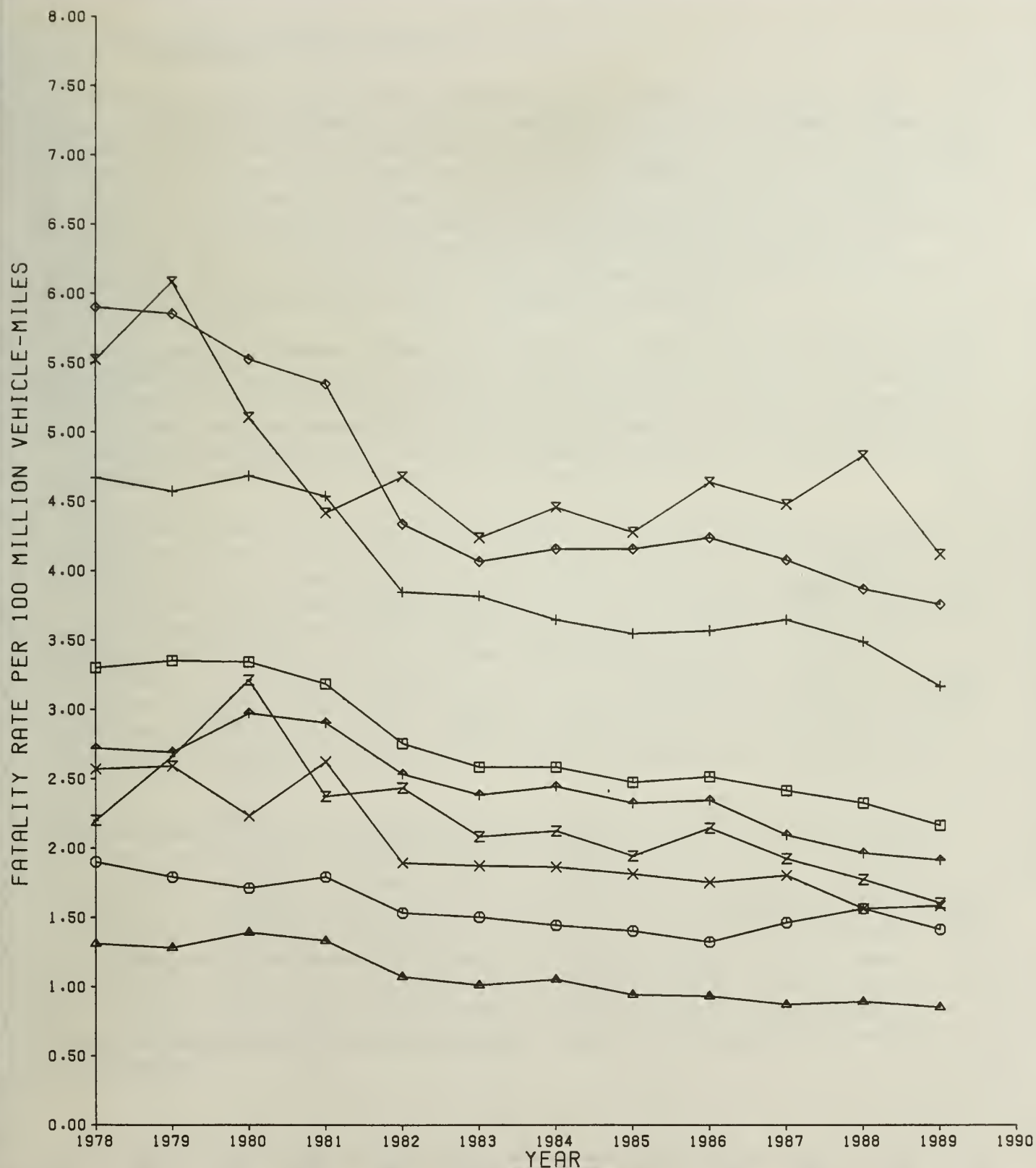


**FIGURE 2. U.S. FATALITY RATES  
FOR INTERSTATE AND OTHER  
HIGHWAY SYSTEMS (1967 - 1989)**



**FIGURE 3. U.S. NONFATAL INJURY RATES  
FOR INTERSTATE AND OTHER  
HIGHWAY SYSTEMS (1967 - 1989)**



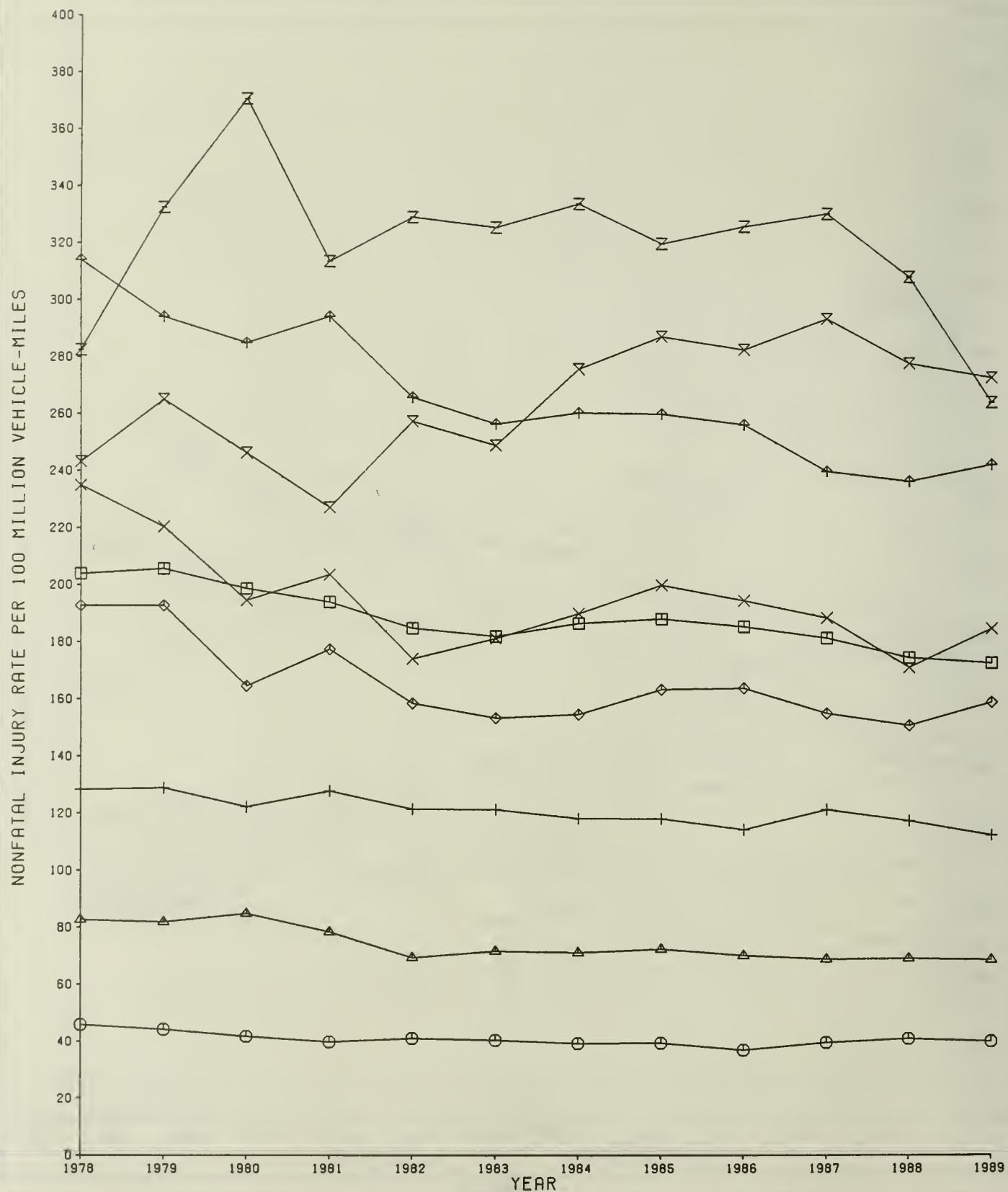


#### LEGEND

□ ALL HIGHWAYS  
 ▲ INTERSTATE URBAN  
 × OTHER FAP URBAN  
 + FEDERAL-AID URBAN  
 Z NON-FEDERAL-AID URBAN

○ INTERSTATE RURAL  
 + OTHER FAP RURAL  
 ◇ FEDERAL-AID SECONDARY  
 × NON-FEDERAL-AID RURAL

**FIGURE 4. U.S. FATALITY RATES  
BY HIGHWAY SYSTEM (1978 - 1989)**



LEGEND

- ALL HIGHWAYS
- ▲ INTERSTATE URBAN
- × OTHER FAP URBAN
- ◆ FEDERAL-AID URBAN
- ⬆ NON-FEDERAL-AID URBAN
- INTERSTATE RURAL
- + OTHER FAP RURAL
- ◇ FEDERAL-AID SECONDARY
- × NON-FEDERAL-AID RURAL

**FIGURE 5. U.S. NONFATAL INJURY RATES  
BY HIGHWAY SYSTEM (1978 - 1989)**

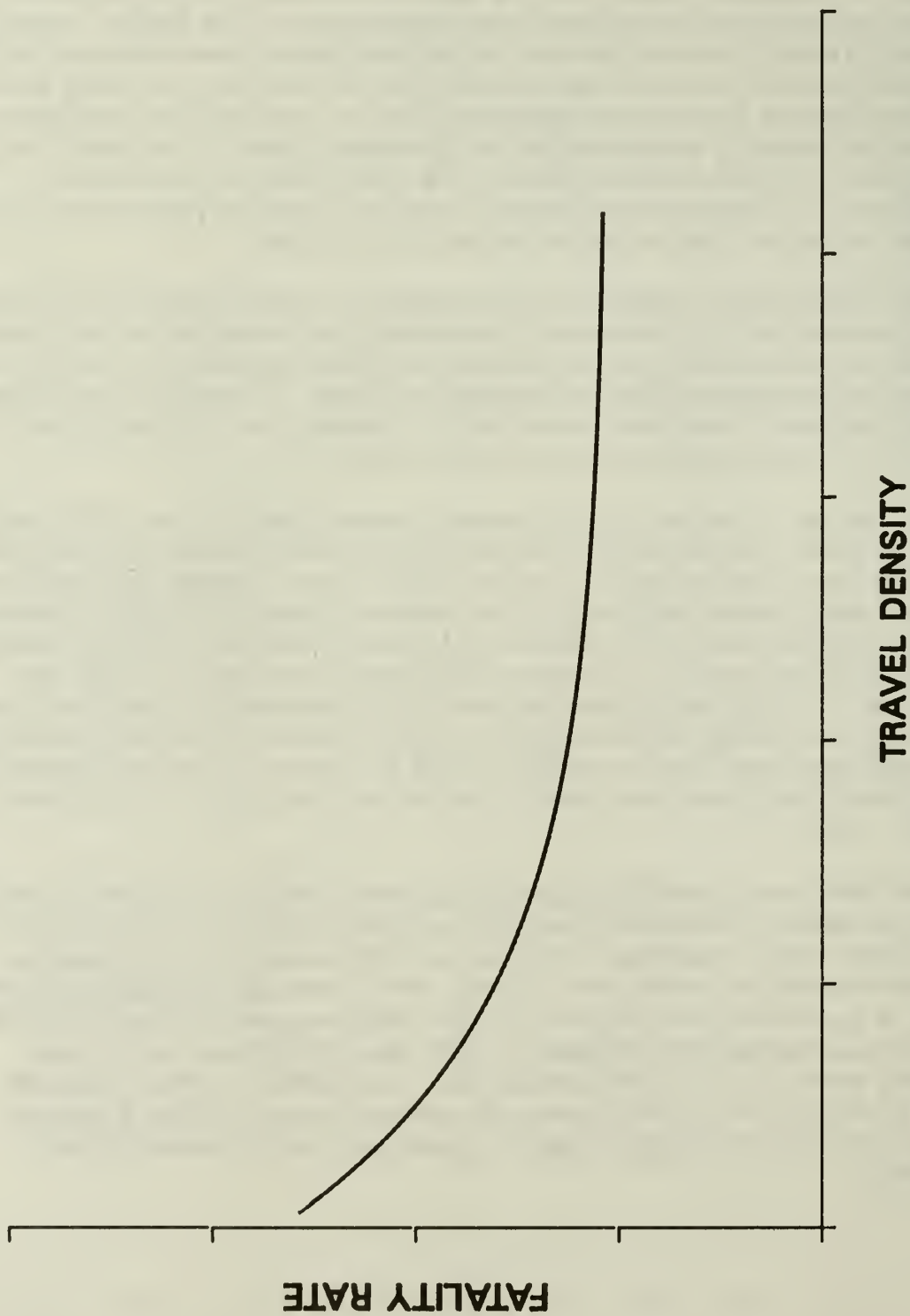
## E. Comparison of State Statistics

This report was prepared to help meet the need for statistical data to be used in comparing and evaluating the highway safety performance of the States. Those who use the report should be aware of some of the strengths and weaknesses of the data. For the most part, the data have been submitted by State highway agencies through the FHWA's Highway Performance Monitoring System. Accident data originate in police accident reporting systems while the collection of travel and highway inventory data originate in the highway departments. The quality of the reported data is generally high but varies somewhat within the States. Not every State was able to summarize its accident data in time for inclusion in this report.

Because all States report accident and related data to FHWA through a single system, reported data are generally consistent. Differences due to variations in data collection procedures are usually marginal. Occasionally variations may be large enough to obscure or exaggerate real differences among the States. Evaluation of the highway safety performance of each State should include consideration of its record over a period of time as well as comparisons with other States.

One useful device for comparing fatality rates is the rate-density curve. Other things being equal, fatality rates in terms of fatalities per 100 million vehicle miles tend to be highest where the travel density--the ratio of vehicle miles to highway miles--is low. The general shape of the rate-density curve--concave upward and sloping downward to the right--is shown in Figure 6. Rate-density curves in the 1976 "Highway Safety Needs Study," a DOT report to Congress, were used to illustrate the fatality rate reduction resulting from the adoption of safer design standards for Interstate highways. Fatality rates are normally higher on lightly traveled segments of the Interstate System than on segments where traffic is heavier. Large and sparsely populated States will normally have higher fatality rates than States with relatively high concentrations of people and traffic.

When basic rate-density relationships are disregarded, evaluation of State highway safety performance is most often based on comparison of State fatality rates with national fatality rates. This tends to focus undue attention on sparsely populated States and encourages complacency in States which have high population and travel densities. A low-density State might have highly effective speed limit enforcement and highway safety improvement programs, for example, but still have fatality rates substantially above those of a high-density State with ineffective safety programs. In Sections V and VI of this report, rate-density relationships are used as a basis for fatality rate comparisons among States, by system, and within States, by year, respectively.



**Figure 6. RELATIONSHIP BETWEEN FATALITY RATES AND TRAVEL DENSITY**



## **SECTION II - VEHICLE MILEAGE RATES**

The most commonly used measures of highway safety are fatality rates based on vehicle mileage. Such rates have been published and widely publicized for over 50 years by the National Safety Council. While other measures are sometimes more appropriate for comparisons and analysis, vehicle mileage rates serve as useful indices. In the tables which follow, rates per 100 million vehicle miles are listed by State and highway system for fatal accidents, nonfatal injury accidents, fatalities, and nonfatally injured persons (Tables 3 through 6, respectively).

The rates shown in these tables are uniformly carried out to two decimal places. This apparent precision surpasses the degree of accuracy of much of the data on which the computed rates are based. Collection and classification of information about miles of highway, vehicle miles of travel, and motor vehicle traffic accidents is a highly complex undertaking. Because of this complexity and the necessity of subjective judgments at many points in the process, the computed rates should be regarded as approximations, not as precise measurements.



TABLE 3-A. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## FEDERAL-AID INTERSTATE HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE
COMPLETE DATA						COMPLETE DATA					
ALABAMA	640	4,262	18,245	46	1.08	ALABAMA	242	3,332	37,722	30	0.90
ALASKA	1,039	686	1,809	16	2.33	ALASKA	50	422	23,123	6	1.42
ARIZONA	1,039	4,326	11,407	112	2.59	ARIZONA	127	2,575	55,550	14	0.54
ARKANSAS	419	2,545	16,641	38	1.49	ARKANSAS	123	1,599	35,616	21	1.31
CALIFORNIA	1,416	13,449	26,022	284	2.11	CALIFORNIA	987	50,309	139,648	364	0.72
COLORADO	791	3,309	11,461	46	1.39	COLORADO	148	3,376	62,495	27	0.80
CONNECTICUT	109	1,396	35,089	2	0.14	CONNECTICUT	233	6,489	76,301	37	0.57
DELAWARE	-	-	-	-	-	DELAWARE	41	927	61,944	10	1.08
DIST. OF COL.	-	-	-	-	-	DIST. OF COL.	12	478	109,132	3	0.63
FLORIDA	982	8,550	23,854	113	1.32	FLORIDA	414	9,674	64,020	121	1.25
GEORGIA	873	8,473	26,591	88	1.04	GEORGIA	372	9,882	72,779	86	0.87
HAWAII	5	91	49,863	0	0.00	HAWAII	34	1,217	98,066	8	0.66
IOWA	530	1,405	7,263	28	1.99	IOWA	76	569	20,512	4	0.70
ILLINOIS	1,417	7,172	13,867	50	0.70	ILLINOIS	524	12,596	65,858	94	0.75
INDIANA	851	5,820	18,737	32	0.55	INDIANA	266	4,582	47,193	34	0.74
IOWA	645	3,238	13,754	24	0.74	IOWA	137	1,365	27,297	13	0.95
KANSAS	712	2,382	9,166	24	1.01	KANSAS	159	1,863	32,101	11	0.59
KENTUCKY	579	4,312	20,404	32	0.74	KENTUCKY	184	3,333	49,628	26	0.78
LOUISIANA	653	4,765	19,992	54	1.13	LOUISIANA	187	2,885	42,268	17	0.59
MAINE	313	1,692	14,810	11	0.65	MAINE	53	477	24,658	5	1.05
MARYLAND	169	2,795	45,311	12	0.43	MARYLAND	224	7,850	96,013	51	0.65
MASSACHUSETTS	313	2,165	34,891	15	0.69	MASSACHUSETTS	394	10,436	72,568	38	0.36
MICHIGAN	765	5,357	19,185	60	1.12	MICHIGAN	455	10,968	66,042	45	0.41
MINNESOTA	688	2,715	10,812	15	0.55	MINNESOTA	217	4,525	57,130	26	0.57
MISSISSIPPI	560	2,595	12,696	45	1.73	MISSISSIPPI	124	1,206	26,646	15	1.24
MISSOURI	841	5,391	17,562	62	1.15	MISSOURI	336	8,229	67,099	117	1.42
MONTANA	1,144	1,731	4,146	33	1.91	MONTANA	47	168	9,793	2	1.19
NEBRASKA	444	1,857	11,459	21	1.13	NEBRASKA	37	609	45,094	6	0.99
NEVADA	499	1,528	8,389	41	2.68	NEVADA	46	888	52,889	11	1.24
NEW HAMPSHIRE	181	1,330	20,132	20	1.50	NEW HAMPSHIRE	44	653	40,660	1	0.15
NEW JERSEY	126	1,930	41,966	8	0.41	NEW JERSEY	272	8,560	86,221	61	0.71
NEW MEXICO	906	3,304	9,991	97	2.94	NEW MEXICO	94	1,044	30,428	12	1.15
NEW YORK	855	5,516	17,675	33	0.60	NEW YORK	645	13,809	58,656	110	0.80
NORTH CAROLINA	620	5,937	26,235	51	0.86	NORTH CAROLINA	226	3,523	42,708	29	0.82
NORTH DAKOTA	530	888	4,590	6	0.68	NORTH DAKOTA	40	165	11,301	3	1.82
OHIO	847	7,838	25,353	61	0.78	OHIO	719	14,853	56,597	80	0.54
OKLAHOMA	723	3,573	13,539	52	1.46	OKLAHOMA	207	3,170	41,956	26	0.82
OREGON	595	3,436	15,821	36	1.05	OREGON	132	2,671	55,438	7	0.26
PENNSYLVANIA	1,155	7,640	18,123	48	0.63	PENNSYLVANIA	414	7,013	46,410	45	0.64
RHODE ISLAND	21	203	26,484	2	0.99	RHODE ISLAND	49	1,051	58,764	9	0.86
SOUTH CAROLINA	673	5,496	22,374	52	0.95	SOUTH CAROLINA	117	2,003	46,903	13	0.65
SOUTH DAKOTA	631	1,275	5,536	7	0.55	SOUTH DAKOTA	46	222	13,222	0	0.00
TENNESSEE	781	6,529	22,904	70	1.07	TENNESSEE	281	5,609	54,687	41	0.73
TEXAS	2,278	11,197	13,467	193	1.72	TEXAS	950	21,812	62,904	285	1.31
UTAH	778	2,139	7,532	55	2.57	UTAH	146	2,587	48,546	25	0.97
VERMONT	286	946	9,062	11	1.16	VERMONT	35	230	18,004	4	1.74
VIRGINIA	771	6,843	24,316	60	0.88	VIRGINIA	298	7,955	73,136	44	0.55
WASHINGTON	519	3,360	17,737	44	1.31	WASHINGTON	243	7,168	80,816	25	0.35
WEST VIRGINIA	429	2,412	15,404	28	1.16	WEST VIRGINIA	90	1,063	32,359	13	1.22
WISCONSIN	516	3,693	19,608	22	0.60	WISCONSIN	124	2,508	55,413	11	0.82
WYOMING	864	1,628	5,162	31	1.90	WYOMING	50	154	8,438	4	2.60
SUBTOTAL	33,378	191,120	15,687	2,291	1.20	SUBTOTAL	11,471	270,652	64,642	2,090	0.77
INCOMPLETE DATA						INCOMPLETE DATA					

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

# TABLE 3-B. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

OTHER FEDERAL-AID PRIMARY HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	5,880	8,321	3,877	263	3.16	ALABAMA	872	4,453	13,991	89	2.00
ALASKA	955	476	1,366	11	2.31	ALASKA	66	190	7,887	4	2.11
ARIZONA	3,262	3,768	3,165	120	3.18	ARIZONA	239	1,629	18,674	16	0.98
ARKANSAS	4,733	5,363	3,104	171	3.19	ARKANSAS	477	2,149	12,343	36	1.68
CALIFORNIA	9,517	22,266	6,410	791	3.55	CALIFORNIA	1,565	37,484	65,620	438	1.17
COLORADO	3,848	4,093	2,914	101	2.47	COLORADO	488	3,747	21,036	60	1.60
CONNECTICUT	689	2,258	8,979	38	1.68	CONNECTICUT	580	4,364	20,614	65	1.49
DELAWARE	334	1,713	14,051	28	1.63	DELAWARE	101	878	23,817	9	1.03
DIST. OF COL.						DIST. OF COL.					
FLORIDA	5,745	13,421	6,400	439	3.27	FLORIDA	2,772	10,833	26,213	39	2.13
GEORGIA	8,582	11,655	3,721	357	3.06	GEORGIA	1,528	9,117	16,347	317	1.58
HAWAII	388	1,133	8,000	32	2.82	HAWAII	124	1,553	34,313	184	2.02
IDAHO	2,659	2,031	2,093	52	2.56	IDAHO	61	275	12,351	33	2.12
ILLINOIS	7,752	9,424	3,331	263	2.79	ILLINOIS	1,938	13,600	19,226	2	0.73
INDIANA	4,208	9,053	5,894	203	2.24	INDIANA	770	4,255	15,140	236	1.74
IOWA	8,067	6,579	2,234	157	2.39	IOWA	717	2,366	9,041	85	2.00
KANSAS	7,713	5,598	1,988	117	2.09	KANSAS	333	1,557	12,810	55	2.32
KENTUCKY	3,335	5,871	4,859	159	2.80	KENTUCKY	472	2,699	15,666	16	1.03
LOUISIANA	2,648	4,842	5,010	144	2.97	LOUISIANA	469	2,973	17,367	29	1.07
MAINE	1,823	3,161	4,751	48	1.52	MAINE	185	922	13,654	14	1.52
MARYLAND	1,642	6,368	10,625	137	2.15	MARYLAND	568	6,369	30,721	106	1.66
MASSACHUSETTS	1,013	3,290	8,998	31	0.94	MASSACHUSETTS	1,201	9,591	21,879	69	0.72
MICHIGAN	6,244	11,977	5,255	281	2.35	MICHIGAN	950	9,124	26,313	113	1.24
MINNESOTA	8,684	8,038	2,536	160	1.99	MINNESOTA	617	3,634	16,136	35	0.96
MISSISSIPPI	5,439	6,097	3,071	199	3.26	MISSISSIPPI	350	1,625	12,720	41	2.52
MISSOURI	6,474	9,042	3,826	251	2.78	MISSOURI	544	3,941	19,848	43	1.09
MONTANA	5,351	2,478	1,269	62	2.50	MONTANA	102	392	10,529	4	1.02
NEBRASKA	6,931	4,068	1,608	74	1.82	NEBRASKA	263	1,292	13,459	17	1.32
NEVADA	1,788	1,348	2,066	53	3.93	NEVADA	69	485	19,257	10	2.06
NEW HAMPSHIRE	964	2,270	6,451	41	1.81	NEW HAMPSHIRE	168	1,119	18,249	8	0.71
NEW JERSEY	821	3,239	10,809	76	2.35	NEW JERSEY	685	8,116	33,437	121	1.49
NEW MEXICO	3,351	2,661	2,176	115	4.32	NEW MEXICO	225	1,090	13,272	30	2.75
NEW YORK	6,415	11,356	4,850	300	2.64	NEW YORK	1,983	21,144	29,213	340	1.61
NORTH CAROLINA	3,853	8,957	6,369	208	2.32	NORTH CAROLINA	667	5,148	21,146	44	0.85
NORTH DAKOTA	5,402	1,727	876	29	1.68	NORTH DAKOTA	137	450	8,999	3	0.67
OHIO	4,981	10,157	5,587	237	2.33	OHIO	1,589	8,761	15,106	126	1.44
OKLAHOMA	4,875	5,521	3,103	111	2.01	OKLAHOMA	430	2,206	14,055	19	0.86
OREGON	4,669	5,733	3,364	210	3.66	OREGON	396	2,828	19,566	38	1.34
PENNSYLVANIA	7,759	16,145	5,701	509	3.15	PENNSYLVANIA	2,158	14,358	18,228	223	1.55
RHODE ISLAND	163	446	7,496	8	1.79	RHODE ISLAND	264	1,594	16,542	29	1.82
SOUTH CAROLINA	4,957	8,372	4,627	223	2.66	SOUTH CAROLINA	724	4,645	17,577	55	1.18
SOUTH DAKOTA	5,690	2,205	1,062	48	2.18	SOUTH DAKOTA	307	768	6,854	7	0.91
TENNESSEE	5,214	8,650	4,545	250	2.89	TENNESSEE	931	5,922	17,427	89	1.50
TEXAS	14,820	21,631	3,999	460	2.13	TEXAS	1,937	17,669	24,991	263	1.49
UTAH	2,511	1,869	1,821	50	3.00	UTAH	109	580	14,578	9	1.55
VERMONT	1,037	1,512	3,995	33	2.18	VERMONT	83	334	11,025	11	3.29
VIRGINIA	4,740	10,633	6,146	262	2.46	VIRGINIA	652	4,912	20,640	59	1.20
WASHINGTON	4,373	5,380	3,371	175	3.25	WASHINGTON	656	5,350	22,344	55	1.03
WEST VIRGINIA	2,235	3,643	4,466	134	3.68	WEST VIRGINIA	213	1,108	14,252	16	1.44
WISCONSIN	6,343	10,861	3,573	262	2.41	WISCONSIN	947	5,333	15,429	49	0.92
WYOMING	2,864	1,517	1,451	28	1.85	WYOMING	124	398	8,794	5	1.26
SUBTOTAL	225,741	317,837	3,857	8,511	2.68	SUBTOTAL	33,464	266,443	21,814	3,820	1.43
INCOMPLETE DATA						INCOMPLETE DATA					

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

# TABLE 3-C. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

FEDERAL-AID URBAN HIGHWAYS

STATE	ARTERIAL				STATE	COLLECTOR					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1,539	4,326	7,701	58	1.34	1,253	1,699	3,715	24	1.41	
ALASKA	118	577	13,397	11	1.91	110	98	2,441	2	2.04	
ARIZONA	1,720	10,055	16,016	229	2.28	809	776	2,628	10	1.29	
ARKANSAS	849	1,946	6,280	48	2.47	304	215	1,938	3	1.40	
CALIFORNIA	12,689	82,531	17,820	1,623	1.97	5,037	7,726	4,202	123	1.59	
COLORADO	1,767	5,457	8,461	96	1.76	621	414	1,826	9	2.17	
CONNECTICUT	1,235	4,493	9,967	72	1.60	1,722	2,146	3,414	34	1.58	
DELAWARE	163	890	14,959	17	1.91	148	325	6,016	5	1.54	
DIST. OF COL.	89	426	13,114	14	3.29	144	330	6,279	8	2.42	
FLORIDA	1,933	15,231	21,588	619	4.06	2,654	5,289	5,660	4	0.08	
GEORGIA	2,174	7,039	8,871	114	1.62	1,813	2,744	4,147	50	1.82	
HAWAII	143	881	16,879	18	2.04	180	458	6,971	8	1.75	
IDAHO	461	1,247	7,411	17	1.36	276	251	2,492	3	1.20	
ILLINOIS	3,667	15,921	11,895	303	1.90	3,099	6,283	5,555	143	2.28	
INDIANA	2,913	8,655	8,140	137	1.58	1,738	1,510	2,380	36	2.38	
IOWA	1,475	2,475	4,597	33	1.33	967	636	1,802	1	0.16	
KANSAS	1,117	3,098	7,599	23	0.74	484	339	1,919	7	2.06	
KENTUCKY	1,116	4,178	10,257	66	1.58	812	1,244	4,197	18	1.45	
LOUISIANA	1,374	5,052	10,074	103	2.04	790	1,076	3,732	16	1.49	
MAINE	344	1,094	8,713	10	0.91	361	393	2,983	4	1.02	
MARYLAND	1,462	7,738	14,501	142	1.84	685	1,338	5,351	20	1.49	
MASSACHUSETTS	3,335	9,642	7,921	154	1.60	2,569	2,714	2,894	67	2.47	
MICHIGAN	4,502	19,626	11,944	324	1.65	1,174	2,080	4,854	6	0.29	
MINNESOTA	1,615	6,174	10,474	65	1.05	631	718	3,117	4	0.56	
MISSISSIPPI	957	2,188	6,264	43	1.97	756	730	2,646	22	3.01	
MISSOURI	1,864	4,883	7,177	66	1.35	595	505	2,325	11	2.18	
MONTANA	242	678	7,676	7	1.03	100	79	2,164	1	1.27	
NEBRASKA	659	2,026	8,423	24	1.18	405	472	3,193	5	1.06	
NEVADA	455	2,673	16,095	68	2.54	98	141	3,942	0	0.00	
NEW HAMPSHIRE	387	1,200	8,495	16	1.33	336	324	2,642	9	2.78	
NEW JERSEY	3,546	14,628	11,302	270	1.85	1,814	3,166	4,782	45	1.42	
NEW MEXICO	444	2,240	13,822	49	2.19	120	142	3,242	1	0.70	
NEW YORK	5,192	25,765	13,596	626	2.43	3,560	4,813	3,704	94	1.95	
NORTH CAROLINA	2,609	9,481	9,956	107	1.13	351	412	3,216	13	3.16	
NORTH DAKOTA	281	467	4,553	6	1.28	207	171	2,263	0	0.00	
OHIO	3,714	12,106	8,930	203	1.68	4,124	4,100	2,724	113	2.76	
OKLAHOMA	2,240	6,952	8,503	72	1.04	753	702	2,554	4	0.57	
OREGON	1,073	3,475	8,873	68	1.96	921	1,193	3,549	13	1.09	
PENNSYLVANIA	3,873	14,155	10,013	226	1.60	1,193	4,541	3,906	42	0.92	
RHODE ISLAND	439	1,861	11,614	30	1.61	499	518	2,844	5	0.97	
SOUTH CAROLINA	631	2,595	11,267	88	3.39	535	890	4,558	0	0.00	
SOUTH DAKOTA	106	172	4,446	6	3.49	152	121	2,181	1	0.83	
TENNESSEE	1,350	6,452	13,094	118	1.83	1,783	2,303	3,539	53	2.30	
TEXAS	6,487	24,952	10,538	241	0.97	1,597	1,526	2,618	5	0.33	
UTAH	538	2,810	14,310	55	1.96	389	873	6,149	14	1.60	
VERMONT	170	492	7,929	7	1.42	178	165	2,540	0	0.00	
VIRGINIA	2,036	10,643	14,322	152	1.43	1,403	2,143	4,185	35	1.63	
WASHINGTON	2,499	9,392	10,297	125	1.33	1,736	2,342	3,696	37	1.58	
WEST VIRGINIA	404	1,314	8,911	23	1.75	397	462	3,188	8	1.73	
WISCONSIN	2,048	5,903	7,897	71	1.20	935	820	2,403	11	1.34	
WYOMING	245	409	4,574	11	2.69	305	232	2,084	2	0.86	
SUBTOTAL	92,289	388,664	11,538	7,074	1.82	55,615	74,688	3,679	1,149	1.54	
INCOMPLETE DATA											

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.



**TABLE 3-D. FATAL ACCIDENTS  
BY STATE AND HIGHWAY SYSTEM - 1989  
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	MAJOR COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE 1/
COMPLETE DATA					
ALABAMA	11,556	4,449	1,055	168	3.78
ALASKA	1,771	482	746	12	2.49
ARIZONA	3,171	2,809	2,427	78	2.78
ARKANSAS	7,330	1,905	712	68	3.57
CALIFORNIA	11,165	10,030	2,461	437	4.36
COLORADO	3,410	1,595	1,281	36	2.26
CONNECTICUT	902	1,367	4,152	31	2.27
DELAWARE	602	654	2,976	20	3.06
DIST. OF COL.	-	-	-	-	-
FLORIDA	4,377	2,749	1,721	117	4.26
GEORGIA	14,000	5,823	1,140	231	3.97
HAWAII	435	474	2,985	17	3.59
IDAHO	4,153	1,147	757	54	4.71
ILLINOIS	12,971	4,026	850	163	4.05
INDIANA	9,665	10,176	2,885	146	1.43
IOWA	13,535	2,468	500	65	2.63
KANSAS	22,608	2,680	325	70	2.61
KENTUCKY	7,312	5,007	1,876	189	3.77
LOUISIANA	7,353	5,095	1,898	215	4.22
MAINE	2,742	1,791	1,790	40	2.23
MARYLAND	1,906	2,164	3,111	62	2.87
MASSACHUSETTS	2,007	1,629	2,224	32	1.96
MICHIGAN	17,046	9,988	1,605	326	3.26
MINNESOTA	16,636	3,697	609	116	3.14
MISSISSIPPI	11,713	3,469	811	138	3.98
MISSOURI	18,091	5,087	770	220	4.32
MONTANA	4,748	722	417	20	2.77
NEBRASKA	11,449	1,255	300	38	3.03
NEVADA	2,317	806	953	49	6.08
NEW HAMPSHIRE	1,233	1,273	2,829	24	1.89
NEW JERSEY	1,723	3,006	4,780	63	2.10
NEW MEXICO	3,930	1,174	818	61	5.20
NEW YORK	6,297	5,536	2,409	161	2.91
NORTH CAROLINA	10,300	10,470	2,785	303	2.89
NORTH DAKOTA	10,599	757	196	10	1.32
OHIO	11,700	8,446	1,978	260	3.08
OKLAHOMA	11,730	3,670	857	88	2.40
OREGON	7,811	2,624	920	97	3.70
PENNSYLVANIA	8,001	5,935	2,032	204	3.44
RHODE ISLAND	201	139	1,895	4	2.88
SOUTH CAROLINA	8,531	4,575	1,469	240	5.25
SOUTH DAKOTA	10,985	914	228	30	3.28
TENNESSEE	5,455	3,107	1,560	111	3.57
TEXAS	32,602	13,718	1,153	461	3.36
UTAH	2,646	768	795	22	2.86
VERMONT	1,913	1,081	1,548	20	1.85
VIRGINIA	10,205	6,157	1,653	184	2.99
WASHINGTON	7,323	4,546	1,701	99	2.18
WEST VIRGINIA	6,355	3,304	1,424	140	4.24
WISCONSIN	12,979	4,105	867	132	3.22
WYOMING	2,266	451	545	15	3.33
SUBTOTAL	399,756	179,300	1,229	5,887	3.28
INCOMPLETE DATA					
1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.					

TABLE 3-E. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID ARTERIAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1	-	-	0	0.00	219	439	5,492	5	1.14	
ALASKA	-	-	-	-	-	3	19	17,352	0	0.00	
ARIZONA	363	1	2,740	0	0.00	33	145	12,038	1	0.69	
ARKANSAS	17	218	1,645	7	3.21	402	525	3,378	7	1.33	
CALIFORNIA	7	35	5,641	7	20.00	1,231	3,825	8,513	69	1.80	
COLORADO	9	4	1,566	0	0.00	6	10	4,566	0	0.00	
CONNECTICUT	9	21	6,393	0	0.00	34	133	10,717	15	11.28	
DELAWARE	1	-	-	0	0.00	4	-	-	0	0.00	
DIST. OF COL.	-	-	-	-	-	8	-	-	0	0.00	
FLORIDA	351	1,847	14,417	55	2.98	403	2,629	17,873	30	1.14	
GEORGIA	-	-	-	-	-	11	-	-	0	0.00	
HAWAII	10	18	4,932	0	0.00	-	-	-	-	-	
IDAHO	-	-	-	-	-	39	95	6,674	0	0.00	
ILLINOIS	-	-	-	-	-	35	65	5,088	2	3.08	
INDIANA	2	264	361,644	3	1.14	49	121	6,765	1	0.83	
IOWA	-	-	-	-	-	13	37	7,798	0	0.00	
KANSAS	-	-	-	-	-	204	730	9,804	13	1.78	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	
LOUISIANA	10	18	4,932	0	0.00	285	534	5,133	2	0.37	
MAINE	1	1	2,740	0	0.00	3	6	5,479	0	0.00	
MARYLAND	-	-	-	-	-	9	23	7,002	0	0.00	
MASSACHUSETTS	-	-	-	-	-	3	9	8,219	0	0.00	
MICHIGAN	-	-	-	-	-	487	910	5,119	0	0.00	
MINNESOTA	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI	279	109	1,070	1	0.92	14	21	4,110	1	4.76	
MISSOURI	-	-	-	-	-	509	3,677	19,792	14	0.38	
MONTANA	62	16	707	0	0.00	38	25	1,802	0	0.00	
NEBRASKA	-	-	-	-	-	-	-	-	-	-	
NEVADA	-	-	-	-	-	24	30	3,425	3	10.00	
NEW HAMPSHIRE	19	264	38,068	1	0.38	22	165	20,548	1	0.61	
NEW JERSEY	121	1,011	22,891	17	1.68	263	3,295	34,325	36	1.09	
NEW MEXICO	12	16	3,653	0	0.00	123	529	11,783	6	1.13	
NEW YORK	-	-	-	-	-	114	531	12,761	1	0.19	
NORTH CAROLINA	257	116	1,237	2	1.72	855	1,780	5,704	21	1.18	
NORTH DAKOTA	2	1	1,370	0	0.00	1	1	2,740	0	0.00	
OHIO	-	-	-	-	-	-	-	-	-	-	
OKLAHOMA	224	381	4,660	4	1.05	161	117	1,991	0	0.00	
OREGON	167	165	2,707	2	1.21	55	148	7,372	0	0.00	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	
RHODE ISLAND	3	9	8,219	0	0.00	-	-	-	-	-	
SOUTH CAROLINA	-	-	-	-	-	259	403	4,263	5	1.24	
SOUTH DAKOTA	14	2	391	0	0.00	3	3	2,740	0	0.00	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	
TEXAS	3	2	1,826	0	0.00	1,860	6,524	9,610	27	0.41	
UTAH	34	13	1,048	0	0.00	42	47	3,066	1	2.13	
VERMONT	-	-	-	-	-	-	-	-	-	-	
VIRGINIA	311	227	2,000	1	0.44	125	806	17,666	1	0.12	
WASHINGTON	-	-	-	-	-	10	43	11,781	0	0.00	
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	
WISCONSIN	3	1	913	0	0.00	102	302	8,112	3	0.99	
WYOMING	253	22	238	1	4.55	3	5	4,566	0	0.00	
SUBTOTAL	2,537	4,782	5,164	101	2.11	8,064	28,707	9,753	265	0.92	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.



# TABLE 3-F. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	6,992	1,119	438	40	3.57	ALABAMA	463	227	1,343	13	5.73
ALASKA	995	160	441	3	1.87	ALASKA	45	44	2,679	2	4.55
ARIZONA	3,627	424	320	13	3.07	ARIZONA	930	850	2,504	7	0.82
ARKANSAS	11,652	1,878	442	77	4.10	ARKANSAS	702	357	1,393	16	4.48
CALIFORNIA	11,638	3,963	933	156	3.94	CALIFORNIA	2,686	3,759	3,834	58	1.54
COLORADO	15,917	2,043	352	42	2.06	COLORADO	527	373	2,979	13	2.27
CONNECTICUT	1,194	593	1,361	20	3.37	CONNECTICUT	195	217	3,049	10	4.61
DELAWARE	158	69	1,196	3	4.35	DELAWARE	12	16	1,906	0	0.00
DIST. OF COL.						DIST. OF COL.					
FLORIDA	5,492	1,726	861	86	4.98	FLORIDA	2,117	3,735	4,834	0	0.00
GEORGIA	7,297	1,159	435	47	4.06	GEORGIA	2			0	0.00
HAWAII	136	179	3,606	5	2.79	HAWAII	1	2	5,479	0	0.00
IDAHO	4,638	294	174	4	1.36	IDAHO	117	90	2,107	0	0.00
ILLINOIS	4,884	1,545	867	40	2.59	ILLINOIS	199	262	3,607	4	1.53
INDIANA	10,390	1,890	498	35	1.85	INDIANA	215	187	2,383	2	1.07
IOWA	16,396	728	122	18	2.47	IOWA	80	41	1,404	0	0.00
KANSAS	9,394	291	85	20	6.87	KANSAS	295	351	3,260	6	1.71
KENTUCKY	9,312	1,884	554	85	4.51	KENTUCKY	96	181	5,166	0	0.00
LOUISIANA	4,305	1,410	897	52	3.69	LOUISIANA	347	210	1,658	2	0.95
MAINE	2,791	965	947	12	1.24	MAINE	31	21	1,856	1	4.76
MARYLAND	1,893	744	1,077	23	3.09	MARYLAND	488	613	3,441	14	2.28
MASSACHUSETTS	7,651	420	590	22	5.24	MASSACHUSETTS	156	136	2,388	2	1.47
MICHIGAN	11,870	1,571	563	56	3.56	MICHIGAN	1,677	1,769	2,890	16	0.90
MINNESOTA	2,927	1,067	246	40	3.75	MINNESOTA	1,214	1,796	4,053	28	1.56
MISSISSIPPI	5,439	350	328	18	5.14	MISSISSIPPI	2	1	1,370	0	0.00
MISSOURI	11,305	390	196	12	3.08	MISSOURI	885	908	2,811	4	0.44
MONTANA	9,235	286	129	10	1.88	MONTANA	128	92	1,969	1	1.09
NEBRASKA	2,463	212	236	14	4.90	NEBRASKA					
NEVADA	1,228	422	942	10	4.72	NEVADA	334	389	3,191	9	2.31
NEW HAMPSHIRE	1,288	1,001	2,129	13	3.08	NEW HAMPSHIRE	3	4	3,653	0	0.00
NEW JERSEY	3,015	328	298	20	2.00	NEW JERSEY	94	83	2,419	3	3.61
NEW MEXICO	10,794	3,208	1,322	15	4.57	NEW MEXICO	182	338	5,088	9	2.66
NEW YORK	9,238	5,208	1,148	97	1.86	NEW YORK	385	801	5,700	10	1.25
NORTH CAROLINA	8,000	3,872	1,148	152	3.93	NORTH CAROLINA	1,017	764	2,058	12	1.57
NORTH DAKOTA	7,188	235	80	6	2.55	NORTH DAKOTA	21	10	1,305	0	0.00
OHIO	12,773	2,037	776	80	3.93	OHIO					
OKLAHOMA	9,147	1,294	278	12	0.93	OKLAHOMA	451	290	1,762	7	2.41
OREGON	8,402	764	229	19	2.49	OREGON	178	185	2,847	0	0.00
PENNSYLVANIA	153	65	1,164	84	3.13	PENNSYLVANIA					
RHODE ISLAND	4,005	630	431	1	1.54	RHODE ISLAND					
SOUTH CAROLINA	7,333	173	65	32	5.08	SOUTH CAROLINA	624	435	1,910	14	3.22
SOUTH DAKOTA	10,801	2,278	578	10	3.78	SOUTH DAKOTA	10	9	2,466	0	0.00
TENNESSEE	23,837	2,912	335	87	3.82	TENNESSEE					
TEXAS	4,667	268	157	64	2.20	TEXAS	5,288	6,285	3,256	0	0.00
UTAH	986	182	506	7	2.61	UTAH	87	47	1,480	1	2.13
VERMONT	2,405	471	337	3	1.65	VERMONT					
VIRGINIA	6,703	1,465	599	17	3.61	VIRGINIA					
WASHINGTON	2,158	324	411	46	3.14	WASHINGTON	42	66	4,305	0	0.00
WEST VIRGINIA	7,153	1,047	401	2	0.62	WEST VIRGINIA	3			0	0.00
WISCONSIN	7,636	420	151	30	2.87	WISCONSIN	493	422	2,345	8	1.90
WYOMING				8	1.90	WYOMING	14	5	978	0	0.00
SUBTOTAL	330,852	55,967	463	1,768	3.16	SUBTOTAL	22,859	26,571	3,185	272	1.02
INCOMPLETE DATA						INCOMPLETE DATA					

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 3-G. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989**  
**NONFEDERAL-AID LOCAL HIGHWAYS**

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	48,622	3,638	205	127	3.49	ALABAMA	12,256	4,500	1,006	55	1.22
ALASKA	5,702	401	193	6	1.50	ALASKA	1,418	332	641	6	1.81
ARIZONA	32,819	3,331	278	115	3.45	ARIZONA	9,621	4,127	1,175	55	1.33
ARKANSAS	44,969	4,969	66	76	7.04	ARKANSAS	4,799	635	363	9	1.42
CALIFORNIA	57,825	2,296	109	263	11.45	CALIFORNIA	48,525	13,809	780	264	1.91
COLORADO	42,159	821	53	37	4.51	COLORADO	7,672	762	1,135	15	0.70
CONNECTICUT	6,142	961	429	19	1.98	CONNECTICUT	6,870	1,745	696	36	2.06
DELAWARE	2,733	464	465	14	3.02	DELAWARE	1,109	510	1,260	2	0.39
DISCONT. OF COL.						DISCONT. OF COL.	659	347	1,443	6	1.73
FLORIDA	42,358	3,092	200	301	9.73	FLORIDA	38,857	20,821	1,468	483	2.32
GEORGIA	56,593	6,659	322	154	2.31	GEORGIA	14,765	13,154	2,441	111	0.84
HAWAII	1,689	550	892	2	0.36	HAWAII	937	1,193	3,488	6	0.50
IDAHO	46,931	862	50	41	4.76	IDAHO	1,376	156	311	7	4.49
ILLINOIS	76,933	3,311	118	137	4.14	ILLINOIS	22,459	7,092	865	110	1.55
INDIANA	48,825	4,887	274	114	2.33	INDIANA	11,852	4,792	1,108	54	1.13
IOWA	65,135	1,492	63	65	4.36	IOWA	5,384	1,146	583	20	1.75
KANSAS	83,742	1,413	46	55	3.89	KANSAS	6,395	1,611	690	9	0.56
KENTUCKY	41,560	1,952	129	67	3.43	KENTUCKY	4,933	1,704	946	15	0.88
LOUISIANA	31,308	2,050	179	64	3.12	LOUISIANA	8,792	7,004	2,183	53	0.76
MAINE	12,111	983	222	26	2.64	MAINE	1,482	233	431	7	3.00
MARYLAND	10,723	1,240	317	59	4.76	MARYLAND	8,726	1,680	527	28	1.67
MASSACHUSETTS	8,060	1,030	350	48	4.66	MASSACHUSETTS	12,948	5,152	1,090	160	3.11
MICHIGAN	59,262	2,560	118	165	6.45	MICHIGAN	17,783	3,960	610	72	1.82
MINNESOTA	77,580	2,448	86	35	1.43	MINNESOTA	9,801	2,581	721	14	0.54
MISSISSIPPI	44,070	2,809	175	73	2.60	MISSISSIPPI	5,121	1,695	907	25	1.47
MISSOURI	73,385	3,369	126	85	2.52	MISSOURI	11,114	2,665	657	51	1.91
MONTANA	46,482	1,778	46	18	2.31	MONTANA	1,611	580	952	5	0.89
NEBRASKA	59,450	1,247	57	24	3.85	NEBRASKA	3,586	669	511	10	1.49
NEVADA	34,713	304	24	8	2.63	NEVADA	2,050	604	807	14	2.32
NEW HAMPSHIRE	8,762	542	169	30	5.54	NEW HAMPSHIRE	1,456	253	476	1	0.40
NEW JERSEY	7,712	886	315	31	3.50	NEW JERSEY	15,801	10,977	1,903	63	0.57
NEW MEXICO	38,153	3,385	145	56	2.77	NEW MEXICO	4,252	953	614	18	1.89
NEW YORK	48,902	3,385	190	121	3.57	NEW YORK	25,822	8,195	869	182	2.22
NORTH CAROLINA	50,897	3,522	190	235	6.67	NORTH CAROLINA	13,338	6,895	1,416	144	2.09
NORTH DAKOTA	60,046	677	31	11	1.82	NORTH DAKOTA	1,118	300	735	2	0.67
OHIO	57,410	5,974	285	243	4.07	OHIO	21,167	10,146	1,313	171	1.69
OKLAHOMA	69,253	1,820	72	140	7.69	OKLAHOMA	7,849	3,140	1,096	34	1.08
OREGON	63,936	1,470	63	42	2.86	OREGON	6,350	1,128	487	14	1.24
PENNSYLVANIA	63,130	5,439	236	154	2.83	PENNSYLVANIA	18,200	5,949	896	179	3.01
RHODE ISLAND	943	27	78	3	11.11	RHODE ISLAND	3,149	827	720	6	0.73
SOUTH CAROLINA	36,533	2,092	157	133	6.36	SOUTH CAROLINA	6,515	644	271	40	6.21
SOUTH DAKOTA	46,969	588	34	23	3.91	SOUTH DAKOTA	1,132	252	610	2	0.79
TENNESSEE	46,603	1,587	93	94	5.92	TENNESSEE	10,882	3,202	806	64	2.00
TEXAS	143,504	4,233	81	339	8.01	TEXAS	70,529	27,051	1,051	585	2.16
UTAH	26,794	519	53	23	4.43	UTAH	4,230	1,595	1,033	7	0.44
VERMONT	8,701	3,170	152	19	3.93	VERMONT	704	340	1,323	1	0.29
VIRGINIA	33,796	1,110	66	43	3.87	VIRGINIA	10,540	5,377	1,398	30	0.56
WASHINGTON	46,093	881	119	23	2.61	WASHINGTON	11,242	3,011	734	46	1.53
WEST VIRGINIA	20,248	3,071	127	92	3.00	WEST VIRGINIA	1,945	429	604	19	4.43
WISCONSIN	66,453	354	41	8	2.26	WISCONSIN	9,717	5,000	1,410	21	0.42
WYOMING	23,741					WYOMING	1,176	155	361	1	0.65
SUBTOTAL	2,130,460	99,877	128	4,158	4.16	SUBTOTAL	530,015	202,431	1,046	3,332	1.65
INCOMPLETE DATA						INCOMPLETE DATA					

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.



# TABLE 3-H. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

TOTAL RURAL AND URBAN HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	73,691	21,789	810	644	2.96	16,844	18,976	3.087	274	1.44	
ALASKA	10,462	2,205	577	48	2.18	1,810	1,682	2.546	31	1.84	
ARIZONA	43,919	14,659	914	438	2.99	13,479	20,157	4.037	332	1.65	
ARKANSAS	69,466	12,988	512	437	3.36	7,656	7,426	2.657	140	1.89	
CALIFORNIA	91,578	52,039	1,557	1,938	3.72	72,720	199,443	7.514	2,939	1.47	
COLORADO	66,132	11,865	492	262	2.21	15,712	15,712	3.834	220	1.40	
CONNECTICUT	9,045	6,596	1,998	110	1.67	10,869	19,587	4.937	269	1.37	
DELAWARE	3,828	2,900	2,076	65	2.24	1,589	3,546	6.114	43	1.21	
DIST. OF COL.					-	1,102	3,414	8.488	70	2.05	
FLORIDA	59,305	31,385	1,450	1,111	3.54	48,650	77,492	4.364	1,574	2.03	
GEORGIA	87,345	33,769	1,059	877	2.60	20,665	41,936	5.560	545	1.30	
HAWAII	2,663	2,445	2,515	56	2.29	1,419	5,305	10.243	73	1.38	
IDAHO	58,911	5,739	267	179	3.12	2,406	2,683	3.055	33	1.23	
ILLINOIS	103,957	25,478	671	653	2.56	31,921	55,819	4.791	892	1.60	
INDIANA	73,941	32,090	1,189	533	1.66	17,803	24,102	3.709	349	1.45	
IOWA	103,778	14,505	383	329	2.27	8,773	8,066	2.519	122	1.51	
KANSAS	124,169	12,364	273	286	2.31	8,987	9,549	2.911	85	0.89	
KENTUCKY	62,098	18,826	831	532	2.83	7,613	13,339	4.800	154	1.15	
LOUISIANA	46,277	18,180	1,076	529	2.91	12,244	19,734	4.416	249	1.26	
MAINE	19,781	8,593	1,190	137	1.59	2,459	3,146	3.505	41	1.30	
MARYLAND	16,333	13,311	2,233	293	2.20	12,162	25,611	5.769	361	1.41	
MASSACHUSETTS	13,201	8,534	1,771	148	1.73	20,606	37,680	5.010	490	1.30	
MICHIGAN	90,968	31,453	947	888	2.82	27,028	48,437	4.910	576	1.19	
MINNESOTA	115,458	17,965	426	366	2.04	14,095	19,428	3.776	172	0.89	
MISSISSIPPI	64,988	15,429	650	474	3.07	7,324	7,466	2.793	147	1.97	
MISSOURI	104,230	23,279	612	630	2.71	15,847	24,808	4.289	306	1.23	
MONTANA	69,092	6,256	248	143	2.29	2,268	1,994	2.409	20	1.00	
NEBRASKA	87,509	8,713	273	195	2.24	4,950	5,068	2.805	62	1.22	
NEVADA	41,780	4,198	275	161	3.84	3,076	5,210	4.640	115	0.97	
NEW HAMPSHIRE	12,387	6,101	1,349	129	2.11	2,416	3,718	4.216	36	0.97	
NEW JERSEY	11,791	11,073	2,573	215	1.94	22,455	48,825	5.957	599	1.23	
NEW MEXICO	49,367	9,503	527	344	3.62	5,440	6,336	3.191	125	1.97	
NEW YORK	73,263	31,001	1,159	712	2.30	37,701	75,058	5.454	1,363	1.82	
NORTH CAROLINA	75,165	32,874	1,198	951	2.89	19,063	28,003	4.025	370	1.32	
NORTH DAKOTA	84,579	4,285	1,139	62	1.45	1,805	1,564	2.374	14	0.90	
OHIO	82,126	34,452	1,149	881	2.56	31,313	49,966	4.372	693	1.39	
OKLAHOMA	99,578	16,259	447	407	2.50	12,091	16,577	3.756	162	0.98	
OREGON	86,325	14,192	450	406	2.86	9,105	11,628	3.459	140	1.20	
PENNSYLVANIA	88,447	37,839	1,172	999	2.64	27,830	46,016	4.530	715	1.55	
RHODE ISLAND	1,484	1,889	1,641	18	2.02	4,400	5,851	4.530	715	1.55	
SOUTH CAROLINA	54,699	21,165	1,060	680	3.21	9,405	11,615	3.384	215	1.35	
SOUTH DAKOTA	71,622	5,157	1,970	118	2.29	1,756	11,547	3.384	215	1.35	
TENNESSEE	68,854	22,151	881	612	2.76	15,227	23,488	4.226	365	1.55	
TEXAS	217,044	53,693	678	1,517	2.83	88,648	105,819	3.270	1,406	1.33	
UTAH	37,430	5,376	394	157	2.92	5,541	8,539	4.222	112	1.31	
VERMONT	12,923	4,204	891	86	2.05	1,170	1,561	3.655	23	1.47	
VIRGINIA	52,228	27,501	1,443	597	2.17	15,054	31,836	5.794	321	1.01	
WASHINGTON	65,011	15,861	668	407	2.57	16,428	27,372	4.565	288	1.05	
WEST VIRGINIA	31,425	10,564	921	327	3.10	3,052	4,376	3.928	179	1.81	
WISCONSIN	95,447	22,798	654	538	2.36	14,366	20,288	3.869	174	0.86	
WYOMING	37,624	4,392	320	91	2.07	1,917	1,358	1.941	23	1.69	
SUBTOTAL	3,122,724	848,883	745	22,716	2.68	753,777	1,258,157	4.573	18,002	1.43	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

# TABLE 4-A. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## FEDERAL-AID INTERSTATE HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	640	4.262	18.245	812	19.05	242	3.332	37.722	646	19.39	
ALASKA	1,039	686	1,809	351	51.17	50	422	23.123	264	62.56	
ARIZONA	1,039	4,326	11,407	1,842	42.58	127	2,575	55.550	1,292	50.17	
ARKANSAS	419	2,545	16,641	322	12.65	123	1,599	35.616	425	26.58	
CALIFORNIA	1,416	13,449	26,022	2,944	21.89	987	50,309	139.648	16,741	33.28	
COLORADO	791	3,309	11,461	1,085	32.79	148	3,376	62.495	1,888	55.92	
CONNECTICUT	109	1,396	35.089	300	21.49	233	6,489	76.301	2,625	40.45	
DELAWARE	-	-	-	-	-	41	927	61.944	290	31.28	
DIS. OF COL.	-	-	-	-	-	12	478	109.132	244	51.05	
FLORIDA	982	8,550	23,854	2,069	24.20	414	9,674	64.020	5,382	55.63	
GEORGIA	873	8,473	26,591	1,325	15.64	372	9,882	72.779	4,813	48.70	
HAWAII	5	91	49,863	42	46.15	34	1,217	98.066	831	68.28	
IDAHO	530	1,405	7,263	430	30.60	76	569	20.512	166	29.17	
ILLINOIS	1,417	7,172	13,867	1,673	23.33	524	12,596	65.858	7,547	59.92	
INDIANA	851	5,820	18,737	1,792	30.79	266	4,582	47.193	8,826	192.62	
IOWA	645	3,238	13,754	544	16.80	137	1,365	27.297	461	33.77	
KANSAS	712	2,382	9,166	547	22.96	159	1,863	32.101	1,051	56.41	
KENTUCKY	579	4,312	20,404	900	20.87	184	3,333	49.628	1,262	37.86	
LOUISIANA	653	4,765	19,992	1,136	23.84	187	2,885	42.268	2,190	75.91	
MAINE	313	1,692	14,810	603	35.64	53	477	24.658	222	46.54	
MARYLAND	169	2,795	45,311	642	22.97	224	7,850	96.013	3,063	39.02	
MASSACHUSETTS	170	2,165	34,891	164	7.58	394	10,436	72.568	1,563	14.98	
MICHIGAN	765	5,357	19,185	2,954	55.14	455	10,968	66.042	4,513	41.15	
MINNESOTA	688	2,715	10,812	424	15.62	217	4,525	57.130	1,632	36.07	
MISSISSIPPI	560	2,595	12,696	298	11.48	124	1,206	26.646	295	24.46	
MISSOURI	841	5,391	17,562	1,007	18.68	336	8,229	67.099	3,920	47.64	
MONTANA	1,144	1,731	4,146	594	34.52	47	168	9.793	56	33.33	
NEBRASKA	444	1,857	11,459	373	20.09	37	609	45.094	431	70.77	
NEVADA	499	1,528	8,389	444	29.06	46	888	52.889	852	95.95	
NEW HAMPSHIRE	181	1,330	20,132	120	9.02	44	653	40.660	41	6.28	
NEW JERSEY	126	1,930	41,966	301	15.60	272	8,560	86.221	3,497	40.85	
NEW MEXICO	906	3,304	9,991	860	26.03	94	1,044	30.428	605	57.95	
NEW YORK	855	5,516	17,675	2,550	46.23	645	13,809	58.656	7,927	57.40	
NORTH CAROLINA	620	5,937	26,235	1,778	29.95	226	3,523	42.708	850	24.13	
NORTH DAKOTA	530	888	4,590	161	18.13	40	165	11.301	58	35.15	
OHIO	847	7,838	25,353	1,719	21.93	719	14,853	56.597	7,799	52.51	
OKLAHOMA	723	3,573	13,539	627	17.55	207	3,170	41.956	1,565	49.37	
OREGON	595	3,436	15,821	554	16.12	132	2,671	55.438	1,232	46.13	
PENNSYLVANIA	1,155	7,640	18,123	1,892	24.76	414	7,013	46.410	2,396	34.17	
RHODE ISLAND	21	203	26,484	25	12.32	49	1,051	58.764	511	48.62	
SOUTH CAROLINA	673	5,496	22,374	673	12.25	117	2,003	46.903	661	33.00	
SOUTH DAKOTA	631	1,275	5,536	269	21.10	46	222	13.222	51	22.97	
TENNESSEE	781	6,529	22,904	1,152	17.64	281	5,609	54.687	2,265	40.38	
TEXAS	2,278	11,197	13,467	2,992	26.72	950	21,812	62.904	16,576	75.99	
UTAH	778	2,139	7,532	680	31.79	146	2,587	48.546	878	33.94	
VERMONT	286	946	9,062	292	30.87	35	230	18.004	84	36.52	
VIRGINIA	771	6,843	24,316	1,257	18.37	298	7,955	73.136	2,527	31.77	
WASHINGTON	519	3,360	17,737	1,053	31.34	243	7,168	80.816	4,405	61.45	
WEST VIRGINIA	429	2,412	15,404	581	24.09	90	1,063	32.359	458	43.09	
WISCONSIN	516	3,693	19,608	887	24.02	124	2,508	55.413	1,010	40.27	
WYOMING	864	1,628	5,162	618	37.96	50	154	8.438	78	50.65	
SUBTOTAL	33,378	191,120	15,687	46,658	24.41	11,471	270,652	64.642	128,965	47.65	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.



# TABLE 4-B. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## OTHER FEDERAL-AID PRIMARY HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	5,880	8,321	3,877	4,065	48.85	ALABAMA	872	4,453	13.991	3,333	74.85
ALASKA	955	476	1,366	1,179	37.61	ALASKA	66	190	7.887	176	92.63
ARIZONA	3,262	3,768	3,165	1,973	52.36	ARIZONA	239	1,629	18.874	1,476	90.61
ARKANSAS	4,733	5,363	3,104	2,235	41.67	ARKANSAS	477	2,149	12.343	1,675	77.94
CALIFORNIA	9,517	22,266	6,410	11,472	51.52	CALIFORNIA	1,565	37,484	65.620	16,764	44.72
COLORADO	3,848	4,093	2,914	1,941	47.42	COLORADO	488	3,747	21.036	4,156	110.92
CONNECTICUT	689	2,258	8,979	1,682	74.49	CONNECTICUT	580	4,364	20.614	6,154	141.02
DELAWARE	334	1,713	14,051	828	48.34	DELAWARE	101	878	23.817	1,215	138.38
DIST. OF COL.	-	-	-	-	-	DIST. OF COL.	178	1,833	28.213	4,605	251.23
FLORIDA	5,745	13,421	6,400	9,637	71.81	FLORIDA	2,272	20,113	24.254	26,538	131.94
GEORGIA	8,582	11,655	3,721	7,955	68.25	GEORGIA	1,528	9,117	16.347	15,879	174.17
HAWAII	388	1,133	8,000	971	85.70	HAWAII	124	1,553	34.313	1,718	110.62
IDAHO	2,659	2,031	2,093	1,092	53.77	IDAHO	61	275	12.351	297	108.00
ILLINOIS	7,752	9,424	3,331	6,334	67.21	ILLINOIS	1,938	13,600	19.226	25,016	183.94
INDIANA	4,208	9,053	5,894	9,397	103.80	INDIANA	770	4,255	15.140	5,640	132.55
IOWA	8,067	6,579	2,234	2,829	43.00	IOWA	717	2,366	9.041	3,745	158.28
KANSAS	7,713	5,598	1,988	2,299	41.07	KANSAS	333	1,557	12.810	2,178	139.88
KENTUCKY	3,335	5,671	4,659	4,282	75.51	KENTUCKY	472	2,699	15.666	4,016	148.80
LOUISIANA	2,648	4,842	5,010	2,870	59.27	LOUISIANA	469	2,973	17.367	6,933	233.20
MAINE	1,823	3,161	4,751	2,433	76.97	MAINE	185	922	13.654	1,859	201.63
MARYLAND	1,642	6,368	10,625	4,341	68.17	MARYLAND	568	6,369	30.721	8,457	132.78
MASSACHUSETTS	1,013	8,898	8,898	1,305	39.67	MASSACHUSETTS	1,201	9,591	21.879	7,522	78.43
MICHIGAN	6,244	11,977	5,255	14,061	117.40	MICHIGAN	950	9,124	26.313	3,611	39.58
MINNESOTA	8,684	8,038	2,536	3,418	42.52	MINNESOTA	617	3,634	16.136	3,851	105.97
MISSISSIPPI	5,439	6,097	3,071	2,467	40.46	MISSISSIPPI	350	1,625	12.720	2,005	123.36
MISSOURI	6,474	9,042	3,826	3,950	43.69	MISSOURI	544	3,941	19.848	5,318	134.94
MONTANA	5,351	2,478	1,269	1,273	51.37	MONTANA	102	392	10.529	126	32.14
NEBRASKA	6,931	4,068	1,608	1,563	38.42	NEBRASKA	263	1,292	13.459	2,839	219.74
NEVADA	1,788	1,348	2,066	619	45.92	NEVADA	69	485	19.257	567	116.91
NEW HAMPSHIRE	964	2,270	6,451	1,056	46.52	NEW HAMPSHIRE	168	1,119	18.249	965	86.24
NEW JERSEY	821	3,239	10,805	4,436	136.56	NEW JERSEY	665	8,116	33.437	13,507	166.42
NEW MEXICO	3,351	2,661	2,176	1,172	44.04	NEW MEXICO	225	1,090	13.272	1,910	175.23
NEW YORK	6,415	11,356	4,850	22,394	197.20	NEW YORK	1,983	21,144	29.213	29,356	138.84
NORTH CAROLINA	3,853	8,957	6,369	5,669	63.29	NORTH CAROLINA	667	5,148	21.146	4,041	78.50
NORTH DAKOTA	5,402	1,727	876	397	22.99	NORTH DAKOTA	137	450	8.999	612	136.00
OHIO	4,981	10,157	5,587	7,819	76.98	OHIO	1,589	8,761	15.106	17,546	200.27
OKLAHOMA	4,875	5,521	3,103	1,959	35.48	OKLAHOMA	430	2,206	14.055	1,806	81.67
OREGON	4,669	3,364	3,364	2,990	52.15	OREGON	396	2,828	19.566	3,668	129.70
PENNSYLVANIA	7,759	16,145	5,701	13,201	81.77	PENNSYLVANIA	2,158	14,358	18.228	17,021	118.55
RHODE ISLAND	163	446	7,496	162	36.32	RHODE ISLAND	264	1,594	16.542	1,629	102.20
SOUTH CAROLINA	4,957	8,372	4,627	5,329	63.65	SOUTH CAROLINA	724	4,645	17.577	6,186	133.18
SOUTH DAKOTA	5,690	2,205	1,062	805	36.51	SOUTH DAKOTA	307	768	6.854	1,310	170.57
TENNESSEE	5,214	8,650	4,545	5,463	63.16	TENNESSEE	931	5,922	17.427	7,431	125.48
TEXAS	14,820	21,631	3,999	8,092	37.41	TEXAS	1,937	17,669	24.991	18,599	105.26
UTAH	2,511	1,669	1,821	920	55.12	UTAH	109	580	14.578	692	119.31
VERMONT	1,037	1,512	3,995	1,039	68.72	VERMONT	83	334	11.025	454	135.93
VIRGINIA	4,740	10,633	6,146	6,755	63.53	VIRGINIA	652	4,912	20.640	6,232	126.87
WASHINGTON	4,373	5,380	3,371	3,698	68.74	WASHINGTON	656	5,350	22.344	3,831	71.61
WEST VIRGINIA	2,235	3,643	4,466	3,674	100.85	WEST VIRGINIA	213	1,108	14.252	1,571	141.79
WISCONSIN	8,343	10,881	3,573	7,012	64.44	WISCONSIN	947	5,333	15.429	5,719	107.24
WYOMING	2,864	1,517	1,451	452	29.80	WYOMING	124	398	8.794	491	123.37
SUBTOTAL	225,741	317,837	3,857	211,965	66.69	SUBTOTAL	33,464	266,443	21.814	312,246	117.19
INCOMPLETE DATA						INCOMPLETE DATA					

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

# TABLE 4-C. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## FEDERAL-AID URBAN HIGHWAYS

STATE	ARTERIAL				STATE	COLLECTOR					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA											
ALABAMA	1,539	4,326	7,701	3,198	73.93	1,253	1,699	3,715	2,666	156.92	
ALASKA	118	577	13,397	21,950	164.64	110	98	2,441	264	269.39	
ARIZONA	1,720	10,055	16,016	21,130	210.14	809	776	2,628	923	118.94	
ARKANSAS	849	1,946	6,280	1,819	93.47	304	215	1,938	113	52.56	
CALIFORNIA	12,689	82,531	17,820	99,080	120.05	5,037	7,726	4,202	10,125	131.05	
COLORADO	1,767	5,457	8,461	9,103	166.81	621	414	1,826	479	115.70	
CONNECTICUT	1,235	4,493	9,967	10,128	225.42	1,722	2,146	3,414	3,996	186.21	
DELAWARE	163	890	14,959	1,306	146.74	148	325	6,016	455	140.00	
DIST. OF COL.	89	426	13,114	1,763	413.85	144	330	6,279	1,601	485.15	
FLORIDA	1,933	15,231	21,588	38,303	251.48	2,654	5,289	5,460	1,833	3.46	
GEORGIA	2,174	7,039	8,871	13,315	189.16	1,813	2,744	4,147	4,762	173.54	
HAWAII	143	881	16,879	2,072	235.19	180	458	6,971	822	179.48	
IDAHO	461	1,247	7,411	1,648	132.16	276	251	2,492	289	115.14	
ILLINOIS	3,667	15,921	11,895	30,568	192.00	3,099	6,283	5,555	11,487	182.83	
INDIANA	2,913	8,655	8,140	14,844	171.51	1,738	1,510	2,380	3,384	224.11	
IOWA	1,475	2,475	4,597	3,977	160.69	967	636	1,802	1,254	197.17	
KANSAS	1,117	3,098	7,599	5,413	174.73	484	339	1,919	472	139.23	
KENTUCKY	1,116	4,178	10,257	7,454	178.41	812	1,244	4,197	1,960	157.56	
LOUISIANA	1,374	5,052	10,074	6,921	137.00	790	1,076	3,732	1,773	16.08	
MAINE	344	1,094	8,713	1,880	171.85	361	393	2,983	600	152.67	
MARYLAND	1,462	7,738	14,501	16,096	208.01	685	1,338	5,351	3,152	235.58	
MASSACHUSETTS	3,335	9,642	7,921	21,118	219.02	2,569	2,714	2,894	7,770	286.29	
MICHIGAN	4,502	19,626	11,944	10,163	51.78	1,174	2,080	4,854	962	46.25	
MINNESOTA	1,615	6,174	10,474	9,148	148.17	631	718	3,117	1,038	144.57	
MISSISSIPPI	957	2,188	6,264	2,847	130.12	756	730	2,646	951	130.27	
MISSOURI	1,864	4,883	7,177	10,286	210.65	595	505	2,325	3,750	742.57	
MONTANA	242	678	7,676	4,923	51.03	100	79	2,164	141	178.48	
NEBRASKA	659	2,026	8,423	242.99	242.99	405	472	3,193	1,086	230.08	
NEVADA	455	2,673	16,095	6,679	129.42	98	141	3,942	287	203.55	
NEW HAMPSHIRE	387	1,200	8,495	1,553	129.42	336	324	2,642	415	128.09	
NEW JERSEY	3,546	14,628	11,302	44,736	305.82	1,814	3,166	4,782	9,029	285.19	
NEW MEXICO	444	2,240	13,822	4,714	210.45	320	142	3,242	340	239.44	
NEW YORK	5,192	25,765	13,596	45,086	174.99	3,560	4,813	3,704	6,565	136.40	
NORTH CAROLINA	2,609	9,481	9,956	9,738	102.71	351	412	3,216	333	80.83	
NORTH DAKOTA	281	467	4,553	575	123.13	207	171	2,263	229	133.92	
OHIO	3,714	12,106	8,930	33,116	273.55	4,124	4,100	2,724	15,126	368.93	
OKLAHOMA	2,240	6,952	8,503	7,704	110.82	753	702	2,554	703	100.14	
OREGON	1,073	3,475	8,873	7,809	224.72	921	1,193	3,549	2,047	171.58	
PENNSYLVANIA	3,873	14,155	10,013	17,757	125.45	3,185	4,541	3,906	3,054	67.25	
RHODE ISLAND	439	1,861	11,614	2,812	151.10	499	518	2,844	689	133.01	
SOUTH CAROLINA	631	2,595	11,267	5,952	229.36	535	890	4,558	31	3.48	
SOUTH DAKOTA	106	172	4,446	356	206.98	152	121	2,181	209	172.73	
TENNESSEE	1,350	6,452	13,094	11,147	172.77	1,783	2,303	3,539	3,814	165.61	
TEXAS	6,487	24,952	10,538	21,252	85.17	1,597	1,526	2,618	140	9.17	
UTAH	538	2,810	14,310	5,655	201.25	389	873	6,149	1,409	161.40	
VERMONT	170	492	7,929	727	147.76	213	165	2,540	178	129.09	
VIRGINIA	2,036	10,643	14,322	16,723	157.13	1,403	2,143	4,185	3,506	163.60	
WASHINGTON	2,499	9,392	10,297	8,924	95.02	1,736	2,342	3,696	2,500	106.75	
WEST VIRGINIA	404	1,314	8,911	2,432	185.08	397	462	3,188	356	77.06	
WISCONSIN	2,048	5,903	7,897	10,787	182.74	935	820	2,403	1,896	231.22	
WYOMING	245	409	4,574	439	107.33	305	232	2,084	269	115.95	
SUBTOTAL	92,289	388,664	11,538	616,472	158.61	55,615	74,688	3,679	118,018	158.01	
INCOMPLETE DATA											
INCOMPLETE DATA											

L/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 4-D. NONFATAL INJURY ACCIDENTS  
BY STATE AND HIGHWAY SYSTEM - 1989  
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	MAJOR COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS NUMBER	RATE 1/
COMPLETE DATA					
ALABAMA	11,556	4,449	1,055	1,558	35.02
ALASKA	1,771	482	746	300	62.24
ARIZONA	3,171	2,809	2,427	1,283	45.67
ARKANSAS	7,330	1,905	712	952	49.97
CALIFORNIA	11,165	10,030	2,461	24,642	245.68
COLORADO	3,410	1,595	1,281	806	50.53
CONNECTICUT	902	1,367	4,152	1,214	88.81
DELAWARE	602	654	2,976	465	71.10
DIST. OF COL.	-	-	-	-	-
FLORIDA	4,377	2,749	1,721	8,148	296.40
GEORGIA	14,000	5,823	1,140	4,721	81.08
HAWAII	435	474	2,985	549	115.82
IDAHO	4,153	1,147	757	830	72.36
ILLINOIS	12,971	4,026	850	4,134	102.68
INDIANA	9,665	10,176	2,885	5,801	57.01
IOWA	13,535	2,468	500	1,611	65.28
KANSAS	22,608	2,680	325	1,999	74.59
KENTUCKY	7,312	5,007	1,876	5,751	114.86
LOUISIANA	7,353	5,095	1,898	5,059	99.29
MAINE	2,742	1,791	1,790	1,610	89.89
MARYLAND	1,906	2,164	3,111	2,518	116.36
MASSACHUSETTS	2,007	1,629	2,224	1,331	81.71
MICHIGAN	17,046	9,988	1,605	646	6.47
MINNESOTA	16,636	3,697	609	2,342	63.35
MISSISSIPPI	11,713	3,469	811	1,392	40.13
MISSOURI	18,091	5,087	770	4,035	79.32
MONTANA	4,748	722	417	379	52.49
NEBRASKA	11,449	1,255	300	1,063	84.70
NEVADA	2,317	806	953	477	59.18
NEW HAMPSHIRE	1,233	1,273	2,829	609	47.84
NEW JERSEY	1,723	3,006	4,780	4,468	148.64
NEW MEXICO	3,930	1,174	818	937	79.81
NEW YORK	6,297	5,536	2,409	14,743	266.31
NORTH CAROLINA	10,300	10,470	2,785	9,345	89.26
NORTH DAKOTA	10,599	757	196	248	32.76
OHIO	11,700	8,446	1,978	9,362	110.85
OKLAHOMA	11,730	3,670	857	1,309	35.67
OREGON	7,811	2,624	920	1,783	67.95
PENNSYLVANIA	8,001	5,935	2,032	6,468	108.98
RHODE ISLAND	201	139	1,895	110	79.14
SOUTH CAROLINA	8,531	4,575	1,469	4,246	92.81
SOUTH DAKOTA	10,985	914	228	454	49.67
TENNESSEE	5,455	3,107	1,560	3,155	101.54
TEXAS	32,602	13,718	1,153	8,817	64.27
UTAH	2,646	768	795	504	65.63
VERMONT	1,913	1,081	1,548	1,001	92.60
VIRGINIA	10,205	6,157	1,653	6,663	108.22
WASHINGTON	7,323	4,546	1,701	13,000	285.97
WEST VIRGINIA	6,355	3,304	1,424	4,505	136.35
WISCONSIN	12,979	4,105	867	4,069	99.12
WYOMING	2,266	451	545	201	44.57
SUBTOTAL	399,756	179,300	1,229	181,613	101.29
INCOMPLETE DATA					

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.



**TABLE 4-E. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989**  
**NONFEDERAL-AID ARTERIAL HIGHWAYS**

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	1	-	-	0	0.00	ALABAMA	219	439	5.492	305	69.48
ALASKA	-	-	-	-	-	ALASKA	3	19	17.352	25	131.58
ARIZONA	1	1	2,740	0	0.00	ARIZONA	33	145	12.038	92	63.45
ARKANSAS	363	218	1,645	100	45.87	ARKANSAS	402	525	3.578	307	58.48
CALIFORNIA	17	35	5,641	11	31.43	CALIFORNIA	1,231	3,825	8.513	4,749	124.16
COLORADO	7	4	1,566	0	0.00	COLORADO	6	10	4.566	0	0.00
CONNECTICUT	9	21	6,393	0	0.00	CONNECTICUT	34	133	10.717	219	164.66
DELAWARE	1	-	-	0	0.00	DELAWARE	4	-	-	0	0.00
DIST. OF COL.	-	-	-	-	-	DIST. OF COL.	8	-	-	0	0.00
FLORIDA	351	1,847	14,417	858	46.45	FLORIDA	403	2,629	17.873	1,490	58.68
GEORGIA	-	-	-	-	-	GEORGIA	11	-	-	0	0.00
HAWAII	10	18	4,932	0	0.00	HAWAII	-	-	-	-	-
IDAH0	-	-	-	-	-	IDAH0	39	95	6.674	102	107.37
ILLINOIS	-	-	-	-	-	ILLINOIS	35	65	5.088	131	201.54
INDIANA	2	264	361,644	38	14.39	INDIANA	49	121	6.765	197	162.81
IOWA	-	-	-	-	-	IOWA	13	37	7.798	0	0.00
KANSAS	-	-	-	-	-	KANSAS	204	730	9.804	1,782	244.11
KENTUCKY	-	-	-	-	-	KENTUCKY	-	-	-	-	-
LOUISIANA	10	18	4,932	0	0.00	LOUISIANA	285	534	5.133	387	72.47
MAINE	1	1	2,740	6	600.00	MAINE	3	6	5.479	22	366.67
MARYLAND	-	-	-	-	-	MARYLAND	9	23	7.002	53	230.43
MASSACHUSETTS	-	-	-	-	-	MASSACHUSETTS	3	9	8.219	10	111.11
MICHIGAN	-	-	-	-	-	MICHIGAN	487	910	5.119	2,020	221.98
MINNESOTA	-	-	-	-	-	MINNESOTA	-	-	-	-	-
MISSISSIPPI	279	109	1,070	8	7.34	MISSISSIPPI	14	21	4.110	1	4.76
MISSOURI	-	-	-	-	-	MISSOURI	509	3,677	19.792	4	0.11
MONTANA	62	16	707	2	12.50	MONTANA	38	25	1.802	136	544.00
NEBRASKA	-	-	-	-	-	NEBRASKA	-	-	-	-	-
NEVADA	-	-	-	4	0.00	NEVADA	24	30	3.425	123	410.00
NEW HAMPSHIRE	19	264	38,088	9	3.41	NEW HAMPSHIRE	22	165	20.548	6	3.84
NEW JERSEY	121	1,011	22,891	674	86.67	NEW JERSEY	263	3,295	34.325	2,295	69.65
NEW MEXICO	12	16	3,653	50	312.50	NEW MEXICO	123	529	11.783	814	153.88
NEW YORK	-	-	-	-	-	NEW YORK	114	531	12.761	0	0.00
NORTH CAROLINA	257	116	1,237	158	136.21	NORTH CAROLINA	855	1,780	5.704	1,075	60.39
NORTH DAKOTA	2	1	1,370	0	0.00	NORTH DAKOTA	1	1	2.740	0	0.00
OHIO	-	-	-	-	-	OHIO	-	-	-	-	-
OKLAHOMA	224	381	4,660	61	16.01	OKLAHOMA	161	117	1.991	67	57.26
OREGON	167	165	2,707	64	38.79	OREGON	55	148	7.372	114	77.03
PENNSYLVANIA	-	-	-	-	-	PENNSYLVANIA	-	-	-	-	-
RHODE ISLAND	3	9	8,219	0	0.00	RHODE ISLAND	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	SOUTH CAROLINA	259	403	4.263	1,127	279.65
SOUTH DAKOTA	14	2	391	2	100.00	SOUTH DAKOTA	3	3	2.740	3	100.00
TENNESSEE	-	-	-	-	-	TENNESSEE	-	-	-	-	-
TEXAS	3	2	1,826	0	0.00	TEXAS	1,860	6,524	9.610	1,118	17.14
UTAH	34	13	1,048	2	15.38	UTAH	42	47	3.066	83	176.60
VERMONT	-	-	-	-	-	VERMONT	-	-	-	-	-
VIRGINIA	311	227	2,000	0	0.00	VIRGINIA	125	806	17.666	82	10.17
WASHINGTON	-	-	-	-	-	WASHINGTON	10	43	11.781	0	0.00
WEST VIRGINIA	-	-	-	-	-	WEST VIRGINIA	-	-	-	-	-
WISCONSIN	3	1	913	0	0.00	WISCONSIN	102	302	8.112	440	145.70
WYOMING	253	22	238	77	350.00	WYOMING	3	5	4.566	0	0.00
SUBTOTAL	2,537	4,782	5,164	2,124	44.42	SUBTOTAL	8,064	28,707	9.753	19,379	87.50
INCOMPLETE DATA						INCOMPLETE DATA					

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.



TABLE 4-F. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	6,992	1,119	438	529	47.27	ALABAMA	463	227	1,343	1,436	632.60
ALASKA	995	160	441	151	94.37	ALASKA	45	44	2,679	56	127.27
ARIZONA	3,627	424	320	214	50.47	ARIZONA	930	850	2,504	646	76.00
ARKANSAS	11,652	1,878	442	965	51.38	ARKANSAS	702	357	1,353	676	189.36
CALIFORNIA	11,638	3,963	933	9,730	245.52	CALIFORNIA	2,686	3,759	3,834	4,839	128.73
COLORADO	15,917	2,043	352	1,344	65.79	COLORADO	527	573	2,979	864	150.79
CONNECTICUT	1,191	593	1,361	621	104.72	CONNECTICUT	195	217	3,049	354	163.13
DELAWARE	158	69	1,196	90	130.43	DELAWARE	23	16	1,906	35	218.75
DIST. OF COL.						DIST. OF COL.	12			0	0.00
FLORIDA	5,492	1,726	861	3,230	187.14	FLORIDA	2,117	3,735	4,834	18	0.00
GEORGIA	7,297	1,159	435	865	74.63	GEORGIA	2			0	0.00
HAWAII	136	179	3,606	20	11.17	HAWAII	1	2	5,479	0	0.00
IDAHO	4,638	294	174	48	16.33	IDAHO	117	90	2,107	54	60.00
ILLINOIS	4,884	1,545	867	1,273	82.39	ILLINOIS	199	262	3,607	375	143.13
INDIANA	10,390	1,890	498	1,276	67.51	INDIANA	215	187	2,383	846	452.41
IOWA	16,396	728	122	600	82.42	IOWA	80	41	1,404	0	0.00
KANSAS	9,394	291	85	250	85.91	KANSAS	295	351	3,260	562	160.11
KENTUCKY	9,312	1,884	554	2,747	145.81	KENTUCKY	96	181	5,166	0	0.00
LOUISIANA	4,305	1,410	897	1,247	88.44	LOUISIANA	347	210	1,658	42	20.00
MAINE	2,791	965	947	1,198	124.15	MAINE	31	21	1,856	28	133.33
MARYLAND	1,893	744	1,077	942	126.61	MARYLAND	488	613	3,441	935	152.53
MASSACHUSETTS	1,951	420	590	866	206.19	MASSACHUSETTS	156	136	2,388	194	142.65
MICHIGAN	7,651	1,571	563	10,818	688.61	MICHIGAN	1,677	1,769	2,890	481	27.19
MINNESOTA	11,870	1,067	246	784	73.48	MINNESOTA	1,214	1,796	4,053	2,904	161.69
MISSISSIPPI	2,927	350	328	72	20.57	MISSISSIPPI	2	1	1,370	0	0.00
MISSOURI	5,439	390	196	283	72.56	MISSOURI	885	908	2,811	72	7.93
MONTANA	11,305	531	129	305	57.44	MONTANA	128	92	1,969	18	19.57
NEBRASKA	9,235	286	85	351	122.73	NEBRASKA					
NEVADA	2,463	212	236	138	65.09	NEVADA	334	389	3,191	820	210.80
NEW HAMPSHIRE	1,228	422	942	265	62.80	NEW HAMPSHIRE	3	4	3,653	0	0.00
NEW JERSEY	1,288	1,001	2,129	1,555	155.34	NEW JERSEY	94	83	2,419	192	231.33
NEW MEXICO	3,015	328	298	180	54.88	NEW MEXICO	182	338	5,088	890	263.31
NEW YORK	10,794	5,208	1,322	14,505	278.51	NEW YORK	385	801	5,700	495	61.80
NORTH CAROLINA	9,238	3,872	1,148	4,318	111.52	NORTH CAROLINA	1,017	764	2,058	366	47.91
NORTH DAKOTA	8,000	235	80	86	36.60	NORTH DAKOTA	21	10	1,305	3	30.00
OHIO	7,188	2,037	776	2,913	143.00	OHIO					
OKLAHOMA	12,773	1,294	278	202	15.61	OKLAHOMA	451	290	1,762	319	110.00
OREGON	9,147	764	229	305	39.92	OREGON	178	185	2,847	126	68.11
PENNSYLVANIA	8,402	2,680	874	3,433	128.10	PENNSYLVANIA					
RHODE ISLAND	153	65	1,164	39	60.00	RHODE ISLAND					
SOUTH CAROLINA	4,005	630	431	543	86.19	SOUTH CAROLINA	624	435	1,910	605	139.08
SOUTH DAKOTA	7,333	173	65	100	57.80	SOUTH DAKOTA	10	9	2,466	6	66.67
TENNESSEE	10,801	2,278	578	2,366	103.86	TENNESSEE					
TEXAS	23,837	2,912	335	1,369	47.01	TEXAS	5,288	6,285	3,256	63	1.00
UTAH	4,667	268	157	216	80.60	UTAH	87	47	1,480	71	151.06
VERMONT	986	182	506	240	131.87	VERMONT					
VIRGINIA	2,405	471	537	725	154.14	VIRGINIA					
WASHINGTON	6,703	1,465	599	3,794	258.98	WASHINGTON	42	66	4,305	0	0.00
WEST VIRGINIA	2,158	324	411	426	131.48	WEST VIRGINIA	3			0	0.00
WISCONSIN	7,153	1,047	401	1,306	124.74	WISCONSIN	493	422	2,345	1,253	296.92
WYOMING	7,636	420	151	163	38.81	WYOMING	14	5	978	0	0.00
SUBTOTAL	330,852	55,967	463	80,007	142.95	SUBTOTAL	22,859	26,571	3,185	20,644	77.69
INCOMPLETE DATA						INCOMPLETE DATA					

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 4-G. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989

NONFEDERAL-AID LOCAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	48,622	3,638	205	3,644	100.16	12,256	4,500	1,006	6,155		136.78
ALASKA	5,702	401	193	871	217.21	1,418	332	641	36		10.84
ARIZONA	32,819	3,331	278	1,891	56.77	9,621	4,127	1,175	5,075		122.97
ARKANSAS	44,969	1,079	66	741	68.67	4,799	635	363	1,356		213.54
CALIFORNIA	57,825	2,296	109	12,540	546.17	48,525	13,809	780	23,194		167.96
COLORADO	821	821	53	998	121.56	7,672	2,135	762	1,844		86.37
CONNECTICUT	6,142	961	429	1,141	118.73	6,870	1,745	696	4,248		243.44
DELAWARE	2,733	464	465	507	109.27	1,109	510	1,260	550		107.84
DIST. OF COL.						659	347	1,443	790		227.67
FLORIDA	42,358	3,092	200	6,363	205.79	38,857	20,821	1,468	39,459		189.52
GEORGIA	56,593	6,659	322	3,491	52.43	14,765	13,154	2,441	8,153		61.98
HAWAII	1,689	550	892	455	82.73	937	1,193	3,488	1,402		117.52
IDAHO	46,931	862	50	1,163	134.92	1,376	156	311	782		501.28
ILLINOIS	76,933	3,311	118	4,521	136.54	22,459	7,092	865	25,114		354.12
INDIANA	48,825	4,887	274	5,489	112.32	11,852	4,732	1,108	4,230		88.27
IOWA	65,135	1,492	63	2,165	145.11	5,384	1,146	583	2,382		207.85
KANSAS	83,742	1,413	46	1,841	130.29	6,395	1,611	690	3,067		190.38
KENTUCKY	41,560	1,952	129	3,277	167.88	4,933	1,704	946	3,858		226.41
LOUISIANA	31,308	2,050	179	4,604	224.59	8,792	7,004	2,183	8,671		123.80
MAINE	12,111	983	222	1,972	200.61	1,482	233	431	438		187.98
MARYLAND	10,723	1,240	317	1,930	155.65	8,726	1,680	527	8,141		484.58
MASSACHUSETTS	8,060	1,030	350	5,771	560.29	12,948	5,152	1,090	25,662		498.10
MICHIGAN	59,262	2,560	118	16,207	633.09	17,783	3,960	610	37,747		953.21
MINNESOTA	77,580	2,448	86	3,090	126.23	9,801	2,581	721	2,945		114.10
MISSISSIPPI	44,070	2,809	175	1,160	41.30	5,121	1,695	907	1,496		88.26
MISSOURI	73,385	3,369	126	7,895	234.34	11,114	2,665	657	4,072		152.80
MONTANA	46,482	1,778	46	557	71.59	1,611	560	952	1,798		321.07
NEBRASKA	59,450	1,247	57	1,630	130.71	3,586	669	511	1,240		185.35
NEVADA	34,713	304	24	203	66.78	2,050	604	807	1,357		224.67
NEW HAMPSHIRE	8,762	542	169	939	173.25	1,456	253	476	247		97.63
NEW JERSEY	7,712	886	315	2,817	317.95	15,801	10,977	1,903	13,210		120.34
NEW MEXICO	38,153	2,020	145	1,244	61.58	4,252	953	614	2,372		248.90
NEW YORK	48,902	3,385	190	25,501	753.35	25,822	8,195	869	34,434		420.18
NORTH CAROLINA	50,897	3,522	190	19,225	545.85	13,338	6,895	1,416	19,967		289.59
NORTH DAKOTA	60,046	677	31	383	56.57	1,118	300	735	223,00		223.00
OHIO	57,410	5,974	285	11,601	194.19	21,167	10,146	1,313	20,565		202.69
OKLAHOMA	69,253	1,820	72	2,738	150.44	7,849	3,140	1,096	3,656		116.43
OREGON	63,936	1,470	63	728	49.52	6,350	1,128	487	1,822		161.52
PENNSYLVANIA	63,130	5,439	236	8,823	162.22	18,200	5,949	896	24,466		411.26
RHODE ISLAND	943	27	78	61	225.93	3,149	827	720	954		115.36
SOUTH CAROLINA	36,533	2,092	157	3,015	144.12	6,515	644	271	2,595		402.95
SOUTH DAKOTA	46,969	588	34	586	99.66	1,132	252	610	454		180.16
TENNESSEE	46,603	1,587	93	3,365	121.04	10,882	3,202	806	6,647		207.59
TEXAS	143,504	4,233	81	11,967	282.71	70,529	27,051	1,051	62,371		230.57
UTAH	26,794	519	53	4,705	906.55	4,230	1,595	1,033	885		55.49
VERMONT	8,701	483	152	699	144.72	704	340	1,323	186		54.71
VIRGINIA	33,796	3,170	257	4,162	131.29	10,540	5,377	1,398	5,090		94.66
WASHINGTON	46,093	1,110	66	6,466	582.52	11,242	3,011	734	5,000		166.06
WEST VIRGINIA	20,248	881	119	1,233	139.95	1,945	429	604	157		36.60
WISCONSIN	66,453	3,071	127	4,502	146.60	9,717	5,000	1,410	3,792		75.84
WYOMING	23,741	354	41	211	59.60	1,176	155	361	356		229.68
SUBTOTAL	2,130,460	99,877	128	211,088	211.35	530,015	202,431	1,046	435,157		214.97
INCOMPLETE DATA											

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.



**TABLE 4-H. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1989**  
**TOTAL RURAL AND URBAN HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	73,691	21,789	810	10,608	48.69	18,844	18,976	3,087	17,739	93.48	
ALASKA	10,462	2,205	577	1,852	83.99	1,810	1,682	2,546	1,771	105.29	
ARIZONA	43,919	14,659	914	7,203	49.14	13,479	20,157	4,097	30,634	151.98	
ARKANSAS	69,466	5,315	512	5,315	40.92	7,656	7,426	2,657	6,371	85.79	
CALIFORNIA	91,578	52,039	1,557	61,339	117.87	72,720	199,443	7,514	175,492	87.99	
COLORADO	66,132	11,865	492	6,174	52.04	11,229	15,712	3,834	18,334	116.69	
CONNECTICUT	9,045	6,596	1,998	4,958	75.17	10,869	19,587	4,937	27,724	141.54	
DELAWARE	3,828	2,900	2,076	1,890	65.17	1,589	3,546	6,114	3,851	108.60	
DIS. OF COL.	-	-	-	-	-	1,102	3,414	8,488	9,003	263.71	
FLORIDA	59,305	31,385	1,450	30,305	96.56	48,650	77,492	4,364	111,373	143.72	
GEORGIA	87,345	33,769	1,059	18,357	54.36	20,665	41,936	5,560	46,922	111.89	
HAWAII	2,663	2,445	2,037	2,037	83.31	1,419	5,305	10,243	6,845	129.03	
IDAOH	58,911	5,739	267	3,563	62.08	2,406	2,683	3,055	3,338	124.41	
ILLINOIS	103,957	25,478	671	17,935	70.39	31,921	55,819	4,791	100,238	179.58	
INDIANA	73,941	32,090	1,189	23,793	74.14	17,803	24,102	3,709	37,967	157.53	
IOWA	103,778	14,505	383	7,749	53.42	8,773	8,066	2,519	11,819	146.53	
KANSAS	124,169	12,364	273	6,936	56.10	8,987	9,549	2,911	14,525	152.11	
KENTUCKY	62,098	18,826	831	16,957	90.07	7,613	13,339	4,800	18,550	139.07	
LOUISIANA	46,277	18,180	1,076	14,916	82.05	12,244	19,734	4,416	25,317	128.29	
MAINE	19,781	8,593	1,190	7,822	91.03	2,459	3,146	3,505	5,049	160.49	
MARYLAND	16,333	13,311	2,233	10,373	77.93	12,162	25,611	5,769	39,897	155.78	
MASSACHUSETTS	13,201	8,534	1,771	9,437	110.58	20,605	37,680	5,010	63,839	169.42	
MICHIGAN	90,968	31,453	1,447	44,686	142.07	27,028	48,437	4,910	59,497	122.83	
MINNESOTA	115,458	17,965	426	10,058	55.99	14,095	19,428	3,776	21,518	110.76	
MISSISSIPPI	64,988	15,429	650	5,397	34.98	7,324	7,466	2,793	7,595	101.73	
MISSOURI	104,230	23,279	612	17,170	73.76	15,847	24,808	4,289	27,422	110.54	
MONTANA	69,092	6,256	248	3,110	49.71	2,268	1,994	2,409	2,621	131.44	
NEBRASKA	87,509	8,713	273	4,980	57.16	4,950	5,068	2,805	10,519	207.56	
NEVADA	41,780	4,198	275	1,885	44.90	3,076	5,210	4,640	10,685	205.09	
NEW HAMPSHIRE	12,387	6,101	1,349	2,998	49.14	2,416	3,718	4,216	3,227	86.79	
NEW JERSEY	11,791	11,073	2,573	14,251	128.70	22,455	48,825	5,957	86,466	177.09	
NEW MEXICO	49,367	9,503	527	4,443	46.75	5,440	6,336	3,191	11,645	183.79	
NORTH CAROLINA	73,263	31,001	1,159	79,693	257.07	37,701	75,038	5,454	123,863	165.02	
NORTH DAKOTA	75,165	32,874	1,198	40,493	123.18	19,063	28,003	4,025	36,370	129.88	
OHIO	82,126	4,285	139	1,275	29.75	1,805	1,564	2,374	2,146	137.21	
OKLAHOMA	99,578	34,452	1,149	33,414	96.99	31,313	49,966	4,372	94,152	188.43	
OREGON	16,259	16,259	447	6,896	42.41	12,091	16,577	3,756	15,820	95.43	
PENNSYLVANIA	88,447	14,192	450	6,424	45.26	9,105	11,628	3,499	16,818	144.63	
RHODE ISLAND	86,325	37,839	1,172	33,817	89.37	27,830	46,016	4,530	64,694	140.59	
SOUTH CAROLINA	1,484	1,641	889	3,397	44.66	4,400	5,851	3,643	6,595	112.72	
SOUTH DAKOTA	54,699	21,165	1,060	13,806	65.23	9,400	11,615	3,384	17,157	147.71	
TENNESSEE	71,622	5,157	1,97	2,216	42.97	1,756	1,547	2,414	2,389	154.43	
TEXAS	68,854	22,151	881	15,501	69.98	15,227	23,488	4,226	31,304	133.28	
UTAH	217,044	53,693	678	33,237	61.90	88,648	105,819	3,270	120,119	113.51	
VERMONT	37,430	5,376	394	7,027	130.71	5,541	8,539	4,222	9,673	113.28	
VIRGINIA	12,923	4,204	891	3,271	77.81	1,170	1,561	3,655	1,664	106.60	
WASHINGTON	52,228	27,501	1,443	19,563	71.14	15,054	31,836	5,794	34,160	107.30	
WEST VIRGINIA	65,011	15,861	668	28,011	176.60	16,428	27,372	4,565	24,660	90.09	
WISCONSIN	31,425	10,584	921	10,419	98.63	3,052	4,376	3,928	4,974	113.67	
WYOMING	95,447	22,798	654	17,776	77.97	14,366	20,288	3,869	24,897	122.72	
	37,624	4,392	320	1,722	39.21	1,917	1,358	1,941	1,633	120.25	
SUBTOTAL	3,122,724	848,883	745	733,455	86.40	753,777	1,258,157	4,573	1,650,881	131.21	
INCOMPLETE DATA						INCOMPLETE DATA					

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 5-A. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989**  
**FEDERAL-AID INTERSTATE HIGHWAYS**

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE PER MILE	FATALITIES			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE PER MILE	FATALITIES	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	640	4,262	18,245	55	1.29	ALABAMA	242	3,332	37,722	34	1.02
ALASKA	1,039	686	1,809	18	2.62	ALASKA	50	422	23,123	6	1.42
ARIZONA	1,039	4,328	11,407	138	3.19	ARIZONA	127	2,575	55,550	14	0.54
ARKANSAS	419	2,545	16,641	52	2.04	ARKANSAS	123	1,599	35,616	22	1.38
CALIFORNIA	1,416	13,449	26,022	337	2.51	CALIFORNIA	987	50,309	139,648	381	0.76
COLORADO	791	3,309	11,461	50	1.51	COLORADO	148	3,378	62,495	28	0.83
CONNECTICUT	109	1,396	35,089	2	0.14	CONNECTICUT	233	6,489	76,301	40	0.62
DELAWARE	-	-	-	-	-	DELAWARE	41	927	61,944	10	1.08
DIST. OF COL.	-	-	-	-	-	DIST. OF COL.	12	478	109,132	3	0.63
FLORIDA	982	8,550	23,854	133	1.56	FLORIDA	414	9,674	54,020	129	1.33
GEORGIA	873	8,473	26,591	108	1.27	GEORGIA	372	9,882	72,779	98	0.99
HAWAII	5	91	49,863	0	0.00	HAWAII	34	1,217	98,066	9	0.74
IOWA	530	1,405	7,263	32	2.28	IOWA	76	569	20,512	4	0.70
ILLINOIS	1,417	7,172	13,867	59	0.82	ILLINOIS	524	12,598	65,858	116	0.92
INDIANA	851	5,820	18,737	37	0.64	INDIANA	266	4,582	47,193	40	0.87
IOWA	645	3,238	13,754	26	0.80	IOWA	137	1,365	27,297	13	0.95
KANSAS	712	2,382	9,166	31	1.30	KANSAS	159	1,863	32,101	17	0.91
KENTUCKY	579	4,312	20,404	42	0.97	KENTUCKY	184	3,333	45,628	31	0.93
LOUISIANA	653	4,765	19,992	60	1.26	LOUISIANA	187	2,885	42,268	17	0.59
MAINE	313	1,692	14,810	11	0.65	MAINE	53	477	24,658	5	1.05
MARYLAND	169	2,795	45,311	18	0.57	MARYLAND	224	7,850	96,013	57	0.73
MASSACHUSETTS	170	2,165	34,891	15	0.69	MASSACHUSETTS	394	10,436	72,568	41	0.39
MICHIGAN	765	5,357	19,185	79	1.47	MICHIGAN	455	10,968	86,042	55	0.50
MINNESOTA	688	2,715	10,812	18	0.59	MINNESOTA	217	4,525	57,130	27	0.60
MISSISSIPPI	560	2,595	12,696	50	1.93	MISSISSIPPI	124	1,206	26,646	16	1.33
MISSOURI	841	5,391	17,562	73	1.35	MISSOURI	336	8,229	67,099	126	1.53
MONTANA	1,144	1,731	4,146	38	2.20	MONTANA	47	168	9,793	2	1.19
NEBRASKA	444	1,857	11,459	26	1.40	NEBRASKA	37	609	45,094	6	0.99
NEVADA	499	1,528	8,389	45	2.95	NEVADA	46	888	52,889	12	1.35
NEW HAMPSHIRE	181	1,330	20,132	23	1.73	NEW HAMPSHIRE	44	653	40,660	1	0.15
NEW JERSEY	126	1,930	41,966	13	0.67	NEW JERSEY	272	8,560	86,221	67	0.78
NEW MEXICO	906	3,304	9,991	108	3.27	NEW MEXICO	94	1,044	30,428	12	1.15
NORTH CAROLINA	855	5,516	17,675	38	0.69	NORTH CAROLINA	645	13,809	58,656	126	0.91
NORTH CAROLINA	620	5,937	26,235	60	1.01	NORTH CAROLINA	226	3,523	42,708	34	0.97
NORTH DAKOTA	530	888	4,590	6	0.68	NORTH DAKOTA	40	165	11,301	3	1.82
OHIO	847	7,838	25,353	75	0.96	OHIO	719	14,853	56,597	92	0.62
OKLAHOMA	723	3,573	13,539	59	1.65	OKLAHOMA	207	3,170	41,956	28	0.88
OREGON	595	3,436	15,821	44	1.28	OREGON	132	2,671	55,438	7	0.26
PENNSYLVANIA	1,155	7,640	18,123	55	0.72	PENNSYLVANIA	414	7,013	46,410	48	0.68
RHODE ISLAND	21	203	26,484	2	0.99	RHODE ISLAND	49	1,051	58,764	9	0.86
SOUTH CAROLINA	673	5,496	22,374	59	1.07	SOUTH CAROLINA	117	2,003	48,903	14	0.70
SOUTH CAROLINA	781	1,275	5,536	7	0.55	SOUTH CAROLINA	46	222	13,222	0	0.00
TENNESSEE	2,278	6,529	22,904	81	1.24	TENNESSEE	281	5,609	54,687	49	0.87
TEXAS	778	11,197	13,467	232	2.07	TEXAS	950	21,812	62,904	321	1.47
UTAH	286	2,139	7,532	57	2.66	UTAH	146	2,587	48,546	27	1.04
VERMONT	771	946	9,062	11	1.16	VERMONT	35	230	18,004	4	1.74
VIRGINIA	519	6,843	24,316	64	0.94	VIRGINIA	298	7,955	73,136	51	0.64
WASHINGTON	429	3,360	17,737	54	1.61	WASHINGTON	243	7,168	80,816	25	0.35
WEST VIRGINIA	516	2,412	15,404	34	1.41	WEST VIRGINIA	90	1,063	32,359	15	1.41
WISCONSIN	864	3,693	19,608	30	0.81	WISCONSIN	124	2,508	55,413	11	0.44
WYOMING		1,628	5,162	35	2.15	WYOMING	50	154	8,438	4	2.60
SUBTOTAL	33,378	191,120	15,687	2,696	1.41	SUBTOTAL	11,471	270,652	64,642	2,307	0.85
INCOMPLETE DATA						INCOMPLETE DATA					
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											



TABLE 5-B. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

OTHER FEDERAL-AID PRIMARY HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	5,880	8,321	3,877	308	3.70	ALABAMA	872	4,453	13,991	98	2.16
ALASKA	955	476	1,366	12	2.52	ALASKA	66	190	7,887	4	2.11
ARIZONA	3,262	3,768	3,165	146	3.87	ARIZONA	239	1,629	18,674	17	1.04
ARKANSAS	4,733	5,363	3,104	185	3.45	ARKANSAS	477	2,149	12,343	39	1.81
CALIFORNIA	9,517	22,266	6,410	942	4.23	CALIFORNIA	1,565	37,484	65,620	490	1.31
COLORADO	3,848	4,093	2,914	114	2.79	COLORADO	488	3,747	21,036	65	1.73
CONNECTICUT	689	2,258	8,979	43	1.90	CONNECTICUT	580	4,364	20,614	69	1.58
DELAWARE	334	1,713	14,051	31	1.81	DELAWARE	101	878	23,817	10	1.14
DIST. OF COL.	-	-	-	-	-	DIST. OF COL.	178	1,833	28,213	41	2.24
FLORIDA	5,745	13,421	6,400	507	3.78	FLORIDA	2,272	20,113	24,254	345	1.72
GEORGIA	8,582	11,655	3,721	443	3.80	GEORGIA	1,528	9,117	16,347	195	2.14
HAWAII	388	1,133	8,000	39	3.44	HAWAII	124	1,553	34,313	41	2.64
IDAHO	2,659	2,031	2,093	58	2.86	IDAHO	61	275	12,351	2	0.73
ILLINOIS	7,752	9,424	3,331	308	3.27	ILLINOIS	1,938	13,600	19,226	259	1.90
INDIANA	4,208	6,053	5,894	228	2.52	INDIANA	717	4,255	15,140	94	2.21
IOWA	8,067	6,579	2,234	195	2.96	IOWA	333	2,366	9,041	61	2.58
KANSAS	7,713	5,598	1,988	130	2.32	KANSAS	472	2,899	15,666	16	1.03
KENTUCKY	3,335	5,671	4,659	188	3.32	KENTUCKY	469	2,973	17,367	30	1.11
LOUISIANA	2,648	4,842	5,010	170	3.51	LOUISIANA	185	922	13,654	15	2.02
MAINE	1,823	3,161	4,751	55	1.74	MAINE	568	6,369	30,721	115	1.63
MARYLAND	1,642	6,368	10,625	157	2.47	MARYLAND	1,201	9,591	21,879	75	0.78
MASSACHUSETTS	1,013	3,290	8,898	34	1.03	MASSACHUSETTS	950	9,124	26,313	141	1.55
MICHIGAN	6,244	11,977	5,255	360	3.01	MICHIGAN	617	3,634	16,136	38	1.05
MINNESOTA	8,684	8,038	2,536	190	2.36	MINNESOTA	350	1,625	12,720	44	2.71
MISSISSIPPI	5,439	6,097	3,071	246	4.03	MISSISSIPPI	544	3,941	19,848	53	1.34
MISSOURI	6,474	9,042	3,826	301	3.33	MISSOURI	102	392	10,529	5	1.28
MONTANA	5,351	2,478	1,269	71	2.87	MONTANA	263	1,292	13,459	18	1.39
NEBRASKA	6,931	4,068	1,608	94	2.31	NEBRASKA	69	485	19,257	11	2.27
NEVADA	1,788	1,348	2,066	60	4.45	NEVADA	168	1,119	18,249	12	1.07
NEW HAMPSHIRE	821	2,270	6,451	45	1.98	NEW HAMPSHIRE	665	8,116	39,437	131	1.61
NEW JERSEY	3,351	3,239	10,809	91	2.81	NEW JERSEY	225	1,990	13,272	32	2.94
NEW MEXICO	6,415	2,661	2,176	148	5.56	NEW MEXICO	1,983	21,144	29,213	370	1.75
NORTH CAROLINA	3,853	8,957	4,850	344	3.03	NORTH CAROLINA	667	5,148	21,146	45	0.87
NORTH CAROLINA	5,402	1,727	876	29	1.68	NORTH CAROLINA	137	8,999	13,745	3	0.67
NORTH DAKOTA	4,981	10,157	5,587	286	2.82	NORTH DAKOTA	1,589	8,761	15,106	138	1.58
OHIO	4,875	5,521	3,103	127	2.30	OHIO	430	2,206	14,055	23	1.04
OKLAHOMA	4,669	5,733	3,364	257	4.48	OKLAHOMA	395	2,828	19,566	43	1.52
OREGON	7,759	16,145	5,701	585	3.62	OREGON	2,158	14,358	18,228	237	1.65
PENNSYLVANIA	4,957	8,372	4,627	261	2.02	PENNSYLVANIA	264	1,894	16,542	29	1.82
RHODE ISLAND	5,690	2,205	1,062	57	3.12	RHODE ISLAND	724	4,845	17,577	58	1.25
SOUTH CAROLINA	5,214	8,650	4,545	286	2.59	SOUTH CAROLINA	307	768	6,854	8	1.04
SOUTH DAKOTA	14,820	21,631	3,999	560	3.31	SOUTH DAKOTA	931	5,922	17,427	99	1.67
TENNESSEE	2,511	1,669	1,821	65	2.59	TENNESSEE	1,937	17,669	24,991	290	1.64
TEXAS	2,511	1,669	1,821	65	3.89	TEXAS	109	580	14,578	9	1.55
UTAH	1,037	1,512	3,995	35	2.31	UTAH	83	334	11,025	14	4.19
VERMONT	4,740	10,633	6,146	293	2.76	VERMONT	652	4,912	20,640	70	1.43
VIRGINIA	4,373	5,380	3,371	293	3.94	VIRGINIA	656	5,350	22,344	58	1.08
WASHINGTON	2,235	3,643	4,466	212	4.28	WASHINGTON	213	1,108	14,252	20	1.81
WEST VIRGINIA	8,343	10,881	3,573	156	2.88	WEST VIRGINIA	947	5,333	15,429	55	1.03
WISCONSIN	2,864	1,517	1,451	313	2.18	WISCONSIN	124	398	8,794	8	1.51
WYOMING				33		WYOMING					
SUBTOTAL	225,741	317,837	3,857	10,042	3.16	SUBTOTAL	33,464	266,443	21,814	4,199	1.58
INCOMPLETE DATA						INCOMPLETE DATA					
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											

TABLE 5-C. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

## FEDERAL-AID URBAN HIGHWAYS

STATE	ARTERIAL				STATE	COLLECTOR				FATALITIES	
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NUMBER		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NUMBER	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1,539	4,326	7,701	61	ALABAMA	1,253	1,699	3,715	27	27	1.59
ALASKA	118	5,577	13,397	11	ALASKA	110	98	2,441	2	2	2.04
ARIZONA	1,720	10,085	16,016	246	ARIZONA	809	776	2,628	12	12	1.55
ARKANSAS	849	1,946	6,280	55	ARKANSAS	5,037	215	1,938	130	130	1.86
CALIFORNIA	12,589	82,531	17,820	1,737	CALIFORNIA	5,037	7,728	4,202	130	130	1.68
COLORADO	1,767	5,457	8,461	99	COLORADO	621	414	1,926	11	11	2.68
CONNECTICUT	1,235	4,493	9,967	74	CONNECTICUT	1,722	2,146	3,414	37	37	1.72
DELAWARE	163	890	14,959	18	DELAWARE	148	325	6,016	5	5	1.54
DIST. OF COL.	89	426	13,114	14	DIST. OF COL.	144	330	6,279	8	8	2.42
FLORIDA	1,933	15,231	21,588	712	FLORIDA	2,654	5,299	5,460	4	4	0.06
GEORGIA	2,174	7,039	8,871	125	GEORGIA	1,813	2,744	4,147	55	55	2.00
HAWAII	143	881	16,879	19	HAWAII	180	458	6,971	8	8	1.75
IDAH0	1,247	1,247	7,411	21	IDAH0	276	251	2,492	3	3	1.20
ILLINOIS	3,667	15,921	11,895	340	ILLINOIS	3,099	6,283	5,555	150	150	2.39
INDIANA	2,913	8,140	8,140	148	INDIANA	1,738	1,510	2,380	37	37	2.45
IOWA	1,475	2,475	4,597	33	IOWA	967	636	1,802	1	1	0.16
KANSAS	1,117	3,098	7,539	28	KANSAS	484	339	1,919	8	8	2.36
KENTUCKY	1,116	4,178	10,257	71	KENTUCKY	812	1,244	4,197	19	19	1.53
LOUISIANA	1,574	5,052	10,074	112	LOUISIANA	790	1,076	3,732	19	19	1.77
MAINE	344	1,094	8,713	11	MAINE	361	393	2,983	5	5	1.27
MARYLAND	1,462	7,738	14,501	151	MARYLAND	1,950	1,338	5,351	23	23	1.72
MASSACHUSETTS	3,335	9,642	7,921	172	MASSACHUSETTS	2,569	2,714	2,894	76	76	2.80
MICHIGAN	4,502	19,626	11,944	324	MICHIGAN	1,174	2,080	4,854	8	8	0.38
MINNESOTA	1,615	6,174	10,474	74	MINNESOTA	631	718	3,117	4	4	0.56
MISSISSIPPI	957	2,188	6,264	49	MISSISSIPPI	595	730	2,646	23	23	3.15
MISSOURI	1,864	4,883	7,177	67	MISSOURI	100	505	2,325	11	11	2.18
MONTANA	242	678	7,676	7	MONTANA	100	79	2,164	1	1	1.27
NEBRASKA	659	2,026	8,423	26	NEBRASKA	405	472	3,193	5	5	1.06
NEVADA	387	2,673	16,095	75	NEVADA	98	141	3,942	0	0	0.00
NEW HAMPSHIRE	3,546	1,200	8,495	18	NEW HAMPSHIRE	336	324	2,642	10	10	3.09
NEW JERSEY	444	14,628	11,302	286	NEW JERSEY	1,814	3,166	4,782	49	49	1.55
NEW MEXICO	5,192	2,240	13,822	56	NEW MEXICO	120	142	3,242	1	1	0.70
NEW YORK	2,609	25,765	13,596	662	NEW YORK	3,560	4,813	3,704	97	97	2.02
NORTH CAROLINA	281	9,481	9,956	115	NORTH CAROLINA	351	351	3,216	13	13	3.16
NORTH DAKOTA	3,714	12,106	4,553	6	NORTH DAKOTA	207	171	2,263	0	0	0.00
OHIO	2,240	6,952	8,503	217	OHIO	4,124	4,100	2,724	122	122	2.98
OKLAHOMA	1,073	3,475	8,873	75	OKLAHOMA	753	702	2,554	4	4	0.57
OREGON	3,873	14,155	10,013	72	OREGON	921	1,193	3,549	13	13	1.09
PENNSYLVANIA	439	1,861	11,614	241	PENNSYLVANIA	3,185	4,541	3,906	46	46	1.01
RHODE ISLAND	631	2,595	11,267	31	RHODE ISLAND	499	518	2,844	6	6	1.16
SOUTH CAROLINA	106	172	4,446	95	SOUTH CAROLINA	535	890	4,558	0	0	0.00
SOUTH DAKOTA	1,350	6,452	13,094	6	SOUTH DAKOTA	152	121	2,181	1	1	0.83
TENNESSEE	6,487	2,952	10,538	129	TENNESSEE	1,783	2,303	3,539	56	56	2.43
TEXAS	538	2,810	14,310	266	TEXAS	1,597	1,526	2,618	5	5	0.33
UTAH	170	492	7,929	59	UTAH	389	673	6,149	14	14	1.60
VERMONT	2,036	10,643	14,322	7	VERMONT	178	165	2,540	0	0	0.00
VIRGINIA	2,499	9,392	10,297	161	VIRGINIA	1,403	2,143	3,696	37	37	1.73
WASHINGTON	404	5,903	8,911	137	WASHINGTON	397	462	2,342	39	39	1.67
WEST VIRGINIA	2,048	1,314	7,897	24	WEST VIRGINIA	935	820	2,403	9	9	1.95
WISCONSIN	245	409	4,574	71	WISCONSIN	305	232	2,084	11	11	1.34
WYOMING	92,289	388,664	11,538	11	WYOMING	305	232	2,084	3	3	1.29
SUBTOTAL				7,625	SUBTOTAL	55,615	74,688	3,679	1,232		1.65
INCOMPLETE DATA					INCOMPLETE DATA						
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											

**TABLE 5-D. FATALITIES**  
**BY STATE AND HIGHWAY SYSTEM - 1989**  
**FEDERAL-AID SECONDARY HIGHWAYS**

STATE	MAJOR COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES	
				NUMBER	RATE 1/
COMPLETE DATA					
ALABAMA	11,556	4,449	1,055	192	4.32
ALASKA	1,771	482	746	13	2.70
ARIZONA	3,171	2,809	2,427	99	3.52
ARKANSAS	7,330	1,905	712	76	3.99
CALIFORNIA	11,165	10,030	2,461	515	5.13
COLORADO	3,410	1,595	1,281	41	2.57
CONNECTICUT	902	1,367	4,152	32	2.34
DELAWARE	602	654	2,976	22	3.36
DIST. OF COL.	-	-	-	-	-
FLORIDA	4,377	2,749	1,721	129	4.69
GEORGIA	14,000	5,823	1,140	268	4.60
HAWAII	435	474	2,985	20	4.22
IDAHO	4,153	1,147	757	59	5.14
ILLINOIS	12,971	4,026	850	196	4.87
INDIANA	9,665	10,176	2,885	156	1.53
IOWA	13,535	2,468	500	68	2.76
KANSAS	22,608	2,680	325	80	2.99
KENTUCKY	7,312	5,007	1,876	212	4.23
LOUISIANA	7,353	5,095	1,898	245	4.81
MAINE	2,742	1,791	1,790	43	2.40
MARYLAND	1,906	2,164	3,111	74	3.42
MASSACHUSETTS	2,007	1,629	2,224	35	2.15
MICHIGAN	17,046	9,988	1,605	354	3.54
MINNESOTA	16,636	3,697	609	133	3.60
MISSISSIPPI	11,713	3,469	811	170	4.90
MISSOURI	18,091	5,087	770	246	4.84
MONTANA	4,748	722	417	20	2.77
NEBRASKA	11,449	1,255	300	45	3.59
NEVADA	2,317	806	953	58	7.20
NEW HAMPSHIRE	1,233	1,273	2,829	31	2.44
NEW JERSEY	1,723	3,006	4,780	66	2.20
NEW MEXICO	3,930	1,174	818	65	5.54
NEW YORK	6,297	5,536	2,409	184	3.32
NORTH CAROLINA	10,300	10,470	2,785	352	3.36
NORTH DAKOTA	10,599	757	196	10	1.32
OHIO	11,700	8,446	1,978	300	3.55
OKLAHOMA	11,730	3,670	857	103	2.81
OREGON	7,811	2,624	920	105	4.00
PENNSYLVANIA	8,001	5,935	2,032	226	3.81
RHODE ISLAND	201	139	1,895	4	2.88
SOUTH CAROLINA	8,531	4,575	1,469	270	5.90
SOUTH DAKOTA	10,985	914	228	33	3.61
TENNESSEE	5,455	3,107	1,560	121	3.89
TEXAS	32,602	13,718	1,153	558	4.07
UTAH	2,646	768	795	23	2.99
VERMONT	1,913	1,081	1,548	21	1.94
VIRGINIA	10,205	6,157	1,653	201	3.26
WASHINGTON	7,323	4,546	1,701	117	2.57
WEST VIRGINIA	6,355	3,304	1,424	163	4.93
WISCONSIN	12,979	4,105	867	154	3.75
WYOMING	2,266	451	545	16	3.55
SUBTOTAL	399,756	179,300	1,229	6,724	3.75
INCOMPLETE DATA					
1/ FATALITIES PER 100 MILLION VEHICLE MILES.					



TABLE 5-E. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID ARTERIAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1	-	-	0	0.00	219	439	5.492	5	1.14	
ALASKA	-	-	-	-	-	3	19	17.352	0	0.00	
ARIZONA	1	2,740	2,740	0	0.00	33	145	12.038	1	0.69	
ARKANSAS	363	218	1,645	8	3.67	402	525	3.578	9	1.71	
CALIFORNIA	17	35	5,641	7	20.00	1,231	3,825	8.513	75	1.96	
COLORADO	7	4	1,566	0	0.00	8	10	4.566	0	0.00	
CONNECTICUT	9	21	6,393	0	0.00	34	133	10.717	16	12.03	
DELAWARE	1	-	-	0	0.00	4	-	-	0	0.00	
DIST. OF COL.	-	-	-	-	-	8	-	-	0	0.00	
FLORIDA	351	1,847	14,417	75	4.06	403	2,629	17.873	42	1.60	
GEORGIA	-	-	-	-	-	11	-	-	0	0.00	
HAWAII	10	18	4,932	0	0.00	-	-	-	-	-	
IDAHO	-	-	-	-	-	39	95	6.674	0	0.00	
ILLINOIS	-	-	-	-	-	35	65	5.088	3	4.62	
INDIANA	2	264	361,644	3	1.14	49	121	6.765	1	0.83	
IOWA	-	-	-	-	-	13	37	7.798	0	0.00	
KANSAS	-	-	-	-	-	204	730	9.804	17	2.33	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	
LOUISIANA	10	18	4,932	0	0.00	285	534	5.133	2	0.37	
MAINE	1	1	2,740	0	0.00	3	6	5.479	0	0.00	
MARYLAND	-	-	-	-	-	9	23	7.002	0	0.00	
MASSACHUSETTS	-	-	-	-	-	3	9	8.219	0	0.00	
MICHIGAN	-	-	-	-	-	487	910	5.119	0	0.00	
MINNESOTA	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI	279	109	2,239	2	0.88	14	21	12.329	1	1.59	
MISSOURI	-	-	-	-	-	509	3,677	19.792	14	0.38	
MONTANA	62	16	707	0	0.00	38	25	1.802	0	0.00	
NEBRASKA	-	-	-	-	-	-	-	-	-	-	
NEVADA	-	-	-	-	-	24	30	-	3	0.00	
NEW HAMPSHIRE	19	264	38,068	1	0.38	22	165	20.548	1	0.61	
NEW JERSEY	121	1,011	22,891	22	2.18	263	3,295	34.325	39	1.18	
NEW MEXICO	12	16	3,653	0	0.00	123	529	11.783	6	1.13	
NEW YORK	-	-	-	-	-	114	531	12.761	1	0.19	
NORTH CAROLINA	257	116	1,237	2	1.72	855	1,780	5.704	21	1.18	
NORTH DAKOTA	2	1	1,370	0	0.00	1	1	2.740	0	0.00	
OHIO	-	-	-	-	-	-	-	-	-	-	
OKLAHOMA	224	381	4,660	4	1.05	161	117	1.991	0	0.00	
OREGON	167	165	2,707	3	1.82	55	148	7.372	0	0.00	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	
RHODE ISLAND	3	9	8,219	0	0.00	-	403	4.263	5	1.24	
SOUTH CAROLINA	-	-	-	-	-	259	3	2.740	0	0.00	
SOUTH DAKOTA	14	2	391	0	0.00	3	-	-	-	-	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	
TEXAS	3	2	1,826	0	0.00	1,860	6,524	9.610	30	0.46	
UTAH	34	13	1,048	0	0.00	42	47	3.066	1	2.13	
VERMONT	-	-	-	-	-	-	-	-	-	-	
VIRGINIA	311	227	2,000	1	0.44	125	806	17.666	1	0.12	
WASHINGTON	-	-	-	-	-	10	43	11.781	0	0.00	
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	
WISCONSIN	3	1	913	0	0.00	102	302	8.112	3	0.99	
WYOMING	253	22	238	2	9.09	3	5	4.566	0	0.00	
SUBTOTAL	2,537	4,782	5,293	130	2.65	8,064	28,707	9.758	297	1.02	
INCOMPLETE DATA											
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											



# TABLE 5-F. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	6,992	1,119	438	41	3.66	463	227	1,343	13	5.73	
ALASKA	995	160	441	4	2.50	45	44	2,679	2	4.55	
ARIZONA	3,627	424	320	17	4.01	930	850	2,504	8	0.94	
ARKANSAS	11,652	1,878	442	85	4.53	702	357	1,393	16	4.48	
CALIFORNIA	11,638	3,963	933	179	4.52	2,686	3,759	3,834	59	1.57	
COLORADO	15,917	2,043	352	46	2.25	527	573	2,979	13	2.27	
CONNECTICUT	1,194	593	1,381	22	3.71	195	217	3,049	13	5.99	
DELAWARE	158	69	1,196	3	4.35	23	18	1,906	0	0.00	
DIST. OF COL.	-	-	-	-	-	12	-	-	0	0.00	
FLORIDA	5,492	1,726	861	87	5.04	2,117	3,735	4,834	0	0.00	
GEORGIA	7,297	1,159	435	52	4.49	2	-	-	0	0.00	
HAWAII	136	179	3,606	5	2.79	1	2	5,479	0	0.00	
IDAHO	4,638	294	174	4	1.36	117	90	2,107	0	0.00	
ILLINOIS	4,884	1,545	867	49	3.17	199	262	3,607	4	1.53	
INDIANA	10,390	1,890	498	38	2.01	215	187	2,383	3	1.60	
IOWA	16,396	728	122	19	2.61	80	41	1,404	0	0.00	
KANSAS	9,394	291	85	21	7.22	295	351	3,260	7	1.99	
KENTUCKY	9,312	1,884	554	91	4.83	96	181	5,166	0	0.00	
LOUISIANA	4,305	1,410	897	63	4.47	347	210	1,658	2	0.95	
MAINE	2,791	965	947	13	1.35	31	21	1,856	1	2.28	
MARYLAND	1,893	744	1,077	26	3.49	488	613	3,441	14	2.46	
MASSACHUSETTS	1,951	420	590	27	6.43	156	136	2,388	2	1.47	
MICHIGAN	7,651	1,571	563	56	3.56	1,677	1,789	2,890	17	0.96	
MINNESOTA	11,870	1,067	246	41	3.84	1,677	1,789	2,890	17	0.96	
MISSISSIPPI	2,927	350	328	18	5.14	2	1	1,370	0	0.00	
MISSOURI	5,439	390	196	12	3.08	885	908	2,811	4	4.44	
MONTANA	11,305	531	129	12	2.26	128	92	1,969	2	2.17	
NEBRASKA	9,235	286	85	15	5.24	-	-	-	-	-	
NEVADA	2,463	212	236	12	5.66	334	389	3,191	9	2.31	
NEW HAMPSHIRE	1,228	422	942	13	3.08	3	4	3,653	0	0.00	
NEW JERSEY	1,268	1,001	2,129	26	2.60	94	83	2,419	3	3.61	
NEW MEXICO	3,015	328	298	17	5.18	182	338	5,088	9	2.66	
NEW YORK	10,794	5,208	1,322	105	2.02	385	801	5,700	10	1.25	
NORTH CAROLINA	9,238	3,872	1,148	167	4.31	1,017	764	2,058	13	1.70	
NORTH DAKOTA	8,000	235	180	6	2.55	21	10	1,305	0	0.00	
OHIO	7,188	2,037	776	86	4.22	-	-	-	-	-	
OKLAHOMA	12,773	1,294	278	14	1.08	451	290	1,762	7	2.41	
OREGON	9,147	1,764	229	22	2.88	178	185	2,847	0	0.00	
PENNSYLVANIA	8,402	2,680	874	87	3.25	-	-	-	-	-	
RHODE ISLAND	153	65	1,164	1	1.54	-	-	-	-	-	
SOUTH CAROLINA	4,005	630	431	34	5.40	624	435	1,910	14	3.22	
SOUTH DAKOTA	7,333	173	65	12	6.94	10	9	2,466	0	0.00	
TENNESSEE	10,801	2,278	578	95	4.17	-	-	-	-	-	
TEXAS	23,837	2,912	335	72	2.47	5,288	6,285	3,256	0	0.00	
UTAH	4,667	268	157	7	2.61	87	47	1,480	1	2.13	
VERMONT	986	182	506	3	1.65	-	-	-	-	-	
VIRGINIA	2,405	471	537	18	3.82	-	-	-	-	-	
WASHINGTON	6,703	1,465	599	46	3.14	42	66	4,305	0	0.00	
WEST VIRGINIA	2,158	324	411	2	0.62	3	-	-	0	0.00	
WISCONSIN	7,153	1,047	401	37	3.53	493	422	2,345	8	1.90	
WYOMING	7,636	420	151	8	1.90	14	5	2,978	0	0.00	
SUBTOTAL	330,852	55,967	463	1,936	3.46	22,859	26,571	3,185	283	1.07	
INCOMPLETE DATA											
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											

TABLE 5-G. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID LOCAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	48,622	3,638	205	137	3.77	12,256	4,500	1,006	80	1.33	
ALASKA	5,702	401	193	6	1.50	1,418	332	1.41	6	1.81	
ARIZONA	32,819	3,331	278	125	3.75	9,621	4,127	1,175	56	1.36	
ARKANSAS	44,969	1,079	66	84	7.78	4,799	835	363	12	1.89	
CALIFORNIA	57,825	2,296	109	289	12.59	48,525	19,809	780	271	1.96	
COLORADO	42,159	821	53	41	4.99	7,672	2,135	762	20	0.94	
CONNECTICUT	6,142	961	429	19	1.98	6,870	1,745	696	39	2.23	
DELAWARE	2,733	464	465	15	3.23	1,109	510	1,260	2	0.39	
DIST. OF COL.						659	347	1,443	6	1.73	
FLORIDA	42,358	3,092	200	301	9.73	38,857	20,821	1,468	518	2.49	
GEORGIA	56,593	6,659	322	171	2.57	14,765	13,154	2,441	117	0.89	
HAWAII	1,689	550	892	2	0.36	937	1,193	3,488	6	0.50	
IDAHO	46,931	862	50	46	5.34	1,376	156	311	9	5.77	
ILLINOIS	76,933	3,311	118	149	4.50	22,459	7,092	865	115	1.62	
INDIANA	48,825	4,887	274	129	2.64	11,852	4,792	1,108	57	1.19	
IOWA	65,135	1,492	63	75	5.03	5,384	1,146	583	23	2.01	
KANSAS	83,742	1,413	46	62	4.39	6,395	1,611	690	11	0.68	
KENTUCKY	41,560	1,952	129	69	3.53	4,933	1,704	946	19	1.12	
LOUISIANA	31,308	2,050	179	68	3.32	8,792	7,004	2,183	56	0.80	
MAINE	12,111	983	222	27	2.75	1,482	233	431	7	9.00	
MARYLAND	10,723	1,240	317	64	5.16	8,726	1,680	527	29	1.73	
MASSACHUSETTS	8,060	1,030	350	53	5.15	12,948	5,152	1,090	170	3.30	
MICHIGAN	59,262	2,580	118	165	6.45	17,783	3,960	610	72	1.82	
MINNESOTA	77,580	2,448	86	38	1.55	9,801	2,581	721	14	0.54	
MISSISSIPPI	44,070	2,809	175	81	2.88	5,121	1,695	907	26	1.53	
MISSOURI	73,385	3,369	126	90	2.67	11,114	2,665	657	55	2.06	
MONTANA	46,482	778	46	18	2.31	1,611	560	952	5	0.89	
NEBRASKA	59,450	1,247	57	51	4.09	3,586	669	511	10	1.49	
NEVADA	34,713	304	24	8	2.63	2,050	804	807	15	2.48	
NEW HAMPSHIRE	8,762	542	169	31	5.72	1,456	253	476	1	0.40	
NEW JERSEY	7,712	886	315	31	3.50	15,801	10,977	1,903	67	0.61	
NEW MEXICO	38,153	2,020	145	65	3.22	4,252	953	614	19	1.99	
NEW YORK	48,902	3,385	190	132	3.90	25,822	8,195	869	188	2.29	
NORTH CAROLINA	50,897	3,522	190	261	7.41	13,338	6,895	1,416	153	2.22	
NORTH DAKOTA	60,046	677	31	11	1.62	1,118	300	735	7	2.33	
OHIO	57,410	5,974	285	281	4.70	21,167	10,148	1,313	175	1.72	
OKLAHOMA	69,253	1,820	72	165	9.07	7,849	3,140	1,096	39	1.24	
OREGON	63,936	1,470	63	45	3.06	6,350	1,128	487	15	1.33	
PENNSYLVANIA	63,130	5,439	236	162	2.98	18,200	5,949	896	190	3.19	
RHODE ISLAND	943	27	78	3	11.11	3,149	827	720	6	0.73	
SOUTH CAROLINA	36,533	2,092	157	146	6.98	6,515	644	271	40	6.21	
SOUTH DAKOTA	46,969	588	34	26	4.42	1,132	252	610	2	0.79	
TENNESSEE	46,603	1,587	93	104	6.55	10,882	3,202	806	68	2.12	
TEXAS	143,504	4,233	81	383	9.05	70,529	27,051	1,051	640	2.37	
UTAH	26,794	519	53	27	5.20	4,230	1,595	1,033	13	0.82	
VERMONT	8,701	483	152	20	4.14	704	340	1,323	1	0.29	
VIRGINIA	33,796	3,170	257	76	2.40	10,540	5,377	1,398	31	0.58	
WASHINGTON	46,093	1,110	66	44	3.96	11,242	3,011	1,734	49	1.63	
WEST VIRGINIA	20,248	881	119	24	2.72	1,945	429	604	21	4.90	
WISCONSIN	66,453	3,071	127	101	3.29	9,717	5,000	1,410	23	0.46	
WYOMING	23,741	354	41	8	2.26	1,176	155	361	1	0.65	
SUBTOTAL	2,130,460	99,877	128	4,529	4.53	530,015	202,431	1,046	3,555	1.76	
INCOMPLETE DATA											
INCOMPLETE DATA											
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											

TABLE 5-H. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1989

TOTAL RURAL AND URBAN HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	73,691	21,789	810	733	3.36	ALABAMA	16,844	18,976	3.087	296	1.56
ALASKA	10,462	2,205	577	53	2.40	ALASKA	1,810	1,682	2.546	31	1.84
ARIZONA	43,919	14,659	914	525	3.58	ARIZONA	13,479	20,157	4.097	354	1.76
ARKANSAS	69,466	12,988	512	490	3.77	ARKANSAS	7,656	7,426	2.657	157	2.11
CALIFORNIA	91,578	52,039	1,557	2,269	4.36	CALIFORNIA	72,720	199,443	7.514	3,143	1.58
COLORADO	66,132	11,665	492	292	2.46	COLORADO	11,229	15,712	3.834	236	1.50
CONNECTICUT	9,045	6,896	1,998	118	1.79	CONNECTICUT	10,869	19,587	4.937	288	1.47
DELAWARE	3,828	2,900	2,078	71	2.45	DELAWARE	1,589	3,546	8.114	45	1.27
DIST. OF COL.					-	DIST. OF COL.	1,102	3,414	8.488	72	2.11
FLORIDA	59,305	31,385	1,450	1,232	3.93	FLORIDA	48,650	77,492	4.364	1,750	2.26
GEORGIA	87,345	33,769	1,059	1,042	3.09	GEORGIA	20,665	41,936	5.560	590	1.41
HAWAII	2,663	2,445	2,515	66	2.70	HAWAII	5,305	5,305	10.243	83	1.56
IOWA	58,911	5,739	267	199	3.47	IOWA	2,406	2,683	3.055	39	1.45
ILLINOIS	103,957	25,478	671	761	2.99	ILLINOIS	31,921	55,819	4.791	987	1.77
INDIANA	73,941	32,090	1,189	591	1.84	INDIANA	17,803	24,102	3.709	380	1.58
IOWA	103,778	14,505	383	383	2.64	IOWA	8,773	8,068	2.519	131	1.62
KANSAS	124,169	12,364	273	324	2.62	KANSAS	8,987	9,549	2.911	104	1.09
KENTUCKY	62,098	18,626	831	602	3.20	KENTUCKY	7,613	13,339	4.800	170	1.27
LOUISIANA	46,277	18,180	1,076	606	3.33	LOUISIANA	12,244	19,734	4.416	268	1.36
MAINE	19,781	8,593	1,190	149	1.73	MAINE	2,459	3,146	3.505	44	1.40
MARYLAND	16,333	13,311	2,233	337	2.53	MARYLAND	12,162	25,811	5.769	389	1.52
MASSACHUSETTS	13,201	8,534	1,771	164	1.92	MASSACHUSETTS	20,606	37,880	5.010	536	1.42
MICHIGAN	90,968	31,453	947	1,014	3.22	MICHIGAN	27,028	48,437	4.910	617	1.27
MINNESOTA	115,458	17,565	426	418	2.33	MINNESOTA	14,095	19,428	3.776	186	0.96
MISSISSIPPI	64,988	15,429	650	567	3.67	MISSISSIPPI	7,324	7,468	2.793	159	2.13
MISSOURI	23,279	23,279	612	722	3.10	MISSOURI	15,847	24,808	4.289	330	1.33
MONTANA	69,092	6,256	248	159	2.54	MONTANA	2,268	1,994	2.409	22	1.10
NEBRASKA	87,509	8,713	275	231	2.65	NEBRASKA	4,950	5,068	2.805	65	1.28
NEVADA	41,780	4,198	248	183	4.36	NEVADA	3,076	5,210	4.640	125	2.40
NEW HAMPSHIRE	12,387	6,101	1,349	144	2.36	NEW HAMPSHIRE	2,416	3,718	4.216	43	1.16
NEW JERSEY	11,791	11,073	2,573	249	2.25	NEW JERSEY	22,455	48,625	5.957	642	1.31
NEW MEXICO	49,367	9,503	527	403	4.24	NEW MEXICO	5,440	6,338	3.191	135	2.13
NEW YORK	73,263	31,001	1,159	803	2.59	NEW YORK	37,701	75,058	5.454	1,454	1.94
NORTH CAROLINA	75,165	32,874	1,198	1,077	3.28	NORTH CAROLINA	19,063	28,003	4.025	394	1.41
NORTH DAKOTA	84,579	4,285	139	62	1.45	NORTH DAKOTA	1,805	1,584	2.374	19	1.21
OHIO	82,126	34,452	1,149	1,028	2.98	OHIO	31,313	49,966	4.372	744	1.49
OKLAHOMA	99,578	16,259	447	472	2.90	OKLAHOMA	12,091	16,577	3.756	176	1.06
OREGON	86,325	14,192	450	476	3.35	OREGON	9,105	11,628	3.499	150	1.29
PENNSYLVANIA	88,447	37,639	1,172	1,115	2.95	PENNSYLVANIA	27,830	46,016	4.530	762	1.66
RHODE ISLAND	1,484	21,689	1,641	19	2.14	RHODE ISLAND	4,400	5,851	3.643	81	1.38
SOUTH CAROLINA	54,699	21,165	1,060	770	3.64	SOUTH CAROLINA	9,405	11,615	3.384	226	1.95
SOUTH DAKOTA	71,622	5,157	197	135	2.62	SOUTH DAKOTA	1,756	1,547	2.414	17	1.10
TENNESSEE	68,854	22,151	881	687	3.10	TENNESSEE	15,227	23,488	4.226	401	1.71
TEXAS	217,044	53,693	678	1,805	3.36	TEXAS	88,648	105,819	3.270	1,552	1.47
UTAH	37,430	5,376	394	179	3.33	UTAH	5,541	8,539	4.222	124	1.65
VERMONT	90,204	4,204	891	90	2.14	VERMONT	1,170	1,561	3.655	26	1.47
VIRGINIA	52,228	27,501	1,443	653	2.37	VIRGINIA	15,054	31,836	5.794	351	1.10
WASHINGTON	65,011	15,661	668	473	2.98	WASHINGTON	16,428	27,372	4.565	308	1.13
WEST VIRGINIA	31,425	10,584	921	379	3.59	WEST VIRGINIA	3,052	4,376	3.928	89	2.03
WISCONSIN	95,447	22,798	654	635	2.79	WISCONSIN	14,368	20,288	3.869	182	0.90
WYOMING	37,624	4,392	320	102	2.32	WYOMING	1,917	1,358	1.941	25	1.84
SUBTOTAL	3,122,724	848,683	745	26,057	3.07	SUBTOTAL	753,777	1,258,157	4.573	19,498	1.55
INCOMPLETE DATA						INCOMPLETE DATA					
1/ FATALITIES PER 100 MILLION VEHICLE MILES.											



# TABLE 6-A. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

## FEDERAL-AID INTERSTATE HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	640	4,262	18,245	1,281	30.06	242	3,332	37,722	890	26.71	
ALASKA	1,039	686	1,809	587	85.57	50	422	23,123	411	97.39	
ARIZONA	1,039	4,326	11,407	3,375	78.02	127	2,575	55,550	1,933	75.07	
ARKANSAS	419	2,545	16,641	660	25.93	123	1,599	35,616	736	46.03	
CALIFORNIA	1,416	13,449	26,022	5,225	38.85	987	50,309	139,648	26,035	51.75	
COLORADO	791	3,309	11,461	1,836	55.49	148	3,376	62,495	2,791	82.67	
CONNECTICUT	109	1,396	35,089	437	31.30	233	6,489	76,301	3,777	58.21	
DELAWARE	-	-	-	-	-	41	927	61,944	489	52.75	
DIST. OF COL.	-	-	-	-	-	12	478	109,132	391	81.80	
FLORIDA	982	8,550	23,854	3,761	43.99	414	9,674	64,020	9,025	93.29	
GEORGIA	873	8,473	26,591	2,335	27.56	372	9,882	72,779	7,381	74.69	
HAWAII	5	91	49,863	60	65.93	34	1,217	98,066	1,203	98.85	
ID	530	1,405	7,263	727	51.74	76	569	20,512	257	45.17	
ILLINOIS	1,417	7,172	13,867	2,731	38.08	524	12,596	65,858	11,323	89.89	
INDIANA	851	5,820	18,737	2,477	42.56	266	4,582	47,193	1,208	26.36	
IOHA	645	3,238	13,754	867	26.78	137	1,365	27,297	637	46.67	
KANSAS	712	2,382	9,166	837	35.14	159	1,863	32,101	1,515	81.32	
KENTUCKY	579	4,312	20,404	1,479	34.30	184	3,333	49,628	1,862	55.87	
LOUISIANA	653	4,765	19,992	2,116	44.41	187	2,885	42,268	3,682	127.63	
MAINE	313	1,692	14,810	928	54.85	53	477	24,658	310	64.99	
MARYLAND	169	2,795	45,311	1,233	44.11	224	7,850	96,013	5,056	64.41	
MASSACHUSETTS	170	2,795	34,891	226	10.44	394	10,436	72,568	2,033	19.48	
MICHIGAN	765	5,357	19,185	4,365	81.48	455	10,968	66,042	6,337	57.78	
MINNESOTA	688	2,715	10,812	646	23.79	217	4,525	57,130	2,153	47.58	
MISSISSIPPI	560	2,595	12,696	500	19.27	124	1,206	26,646	546	45.27	
MISSOURI	841	5,991	17,562	1,805	33.48	336	8,229	67,099	6,049	73.51	
MONTANA	1,144	1,731	4,146	921	53.21	47	168	9,793	78	46.43	
NEBRASKA	444	1,857	11,459	666	35.86	37	609	45,094	590	96.88	
NEVADA	499	1,528	8,389	857	56.09	46	888	52,889	1,243	139.98	
NEW HAMPSHIRE	181	1,330	20,132	182	13.68	44	653	40,660	61	9.34	
NEW JERSEY	126	1,930	41,966	430	22.28	272	8,560	86,221	5,809	67.86	
NEW MEXICO	906	3,304	9,991	1,557	47.12	94	1,044	30,428	882	84.48	
NEW YORK	855	5,516	17,675	2,873	52.08	645	13,809	58,656	11,363	82.29	
NORTH CAROLINA	620	5,937	26,235	3,014	50.77	226	3,523	42,708	1,339	38.01	
NORTH DAKOTA	530	888	4,590	255	28.72	40	165	11,301	47	88.33	
OHIO	847	7,838	25,353	2,735	34.89	719	14,853	56,597	13,119	88.33	
OKLAHOMA	723	3,573	13,539	1,010	28.27	207	3,170	41,956	2,350	74.13	
OREGON	595	3,436	15,821	943	27.44	132	2,671	55,438	2,008	75.18	
PENNSYLVANIA	1,155	7,640	18,123	3,057	40.01	414	7,013	46,410	3,787	54.00	
RHODE ISLAND	21	203	26,484	36	17.73	49	1,051	58,764	616	58.61	
SOUTH CAROLINA	673	5,496	22,374	1,103	20.07	117	2,003	46,903	1,012	50.52	
SOUTH DAKOTA	631	1,275	5,536	408	32.00	46	222	13,222	66	29.73	
TENNESSEE	781	6,529	22,904	1,902	29.13	281	5,609	54,687	3,446	61.44	
TEXAS	2,278	11,197	13,467	5,197	46.41	950	21,812	62,904	26,202	120.13	
UTAH	778	2,139	7,532	1,214	56.76	146	2,587	48,546	1,268	49.01	
VERMONT	286	946	9,062	450	47.57	35	230	18,004	128	55.65	
VIRGINIA	771	6,843	24,316	2,034	29.72	298	7,955	73,136	3,729	46.88	
WASHINGTON	519	3,360	17,737	1,547	46.04	243	7,168	80,816	6,288	87.72	
WEST VIRGINIA	429	2,412	15,404	1,048	33.45	90	1,063	32,359	786	73.94	
WISCONSIN	516	3,693	19,608	1,383	37.45	124	2,508	55,413	1,450	57.81	
WYOMING	864	1,628	5,162	1,022	62.78	50	154	8,438	129	83.77	
SUBTOTAL	33,378	191,120	15,687	76,338	39.94	11,471	270,652	64,642	185,858	68.67	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

# TABLE 6-B. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

## OTHER FEDERAL-AID PRIMARY HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,880	8,321	3,877	6,500	78.12	872	4,453	13,991	4,768	107.07	
ALASKA	955	476	1,366	305	64.08	66	190	7,887	255	134.21	
ARIZONA	3,262	3,768	3,165	3,570	94.75	239	1,629	18,674	2,347	144.08	
ARKANSAS	4,733	5,363	3,104	4,425	82.51	477	2,149	12,343	3,183	148.12	
CALIFORNIA	9,517	22,266	6,410	20,773	93.29	1,565	37,484	65,620	26,118	69.68	
COLORADO	3,848	4,093	2,914	3,344	81.70	488	3,747	21,036	6,545	174.67	
CONNECTICUT	689	2,258	8,979	2,481	109.88	580	4,364	20,614	8,884	203.57	
DELAWARE	334	1,713	14,051	1,463	85.41	101	878	23,817	1,925	219.25	
DIST. OF COL.	-	-	-	-	-	178	1,833	28,213	6,528	356.14	
FLORIDA	5,745	13,421	6,400	18,165	135.35	2,272	20,113	24,254	43,791	217.72	
GEORGIA	8,582	11,655	3,721	13,448	115.38	1,526	9,117	16,347	24,929	273.43	
HAWAII	388	1,133	8,000	1,600	141.22	124	1,553	34,313	2,601	167.48	
IDAHO	2,659	2,031	2,093	1,819	89.56	61	275	12,351	440	160.00	
ILLINOIS	7,752	9,424	3,331	10,257	108.84	1,938	13,600	19,226	38,247	281.23	
INDIANA	4,208	9,053	5,894	13,350	147.46	717	4,255	15,140	8,312	195.35	
IOWA	8,067	6,579	2,234	4,471	67.96	333	2,366	9,041	5,356	226.37	
KANSAS	7,713	5,598	1,988	3,760	67.17	472	1,557	12,810	3,388	217.60	
KENTUCKY	3,335	5,671	4,659	7,258	127.98	333	2,899	15,666	6,248	231.49	
LOUISIANA	2,648	4,842	5,010	5,298	109.42	469	2,973	17,367	11,768	395.83	
MAINE	1,823	3,161	4,751	3,833	121.26	185	922	13,654	2,646	286.98	
MARYLAND	1,642	6,368	10,625	7,694	120.82	568	6,369	30,721	14,627	229.66	
MASSACHUSETTS	1,013	3,290	8,898	1,891	57.48	1,201	9,591	21,879	9,871	102.92	
MICHIGAN	6,244	11,977	5,255	22,774	190.15	950	9,124	26,313	5,481	60.07	
MINNESOTA	8,684	8,038	2,536	5,611	69.81	617	3,634	16,136	5,611	154.40	
MISSISSIPPI	5,439	6,097	3,071	5,084	83.39	350	1,625	12,720	3,871	238.22	
MISSOURI	6,474	9,042	3,826	7,772	41.72	544	3,941	19,848	8,564	217.31	
MONTANA	5,351	2,478	1,269	2,109	85.11	102	392	10,529	197	50.26	
NEBRASKA	6,931	4,068	1,608	2,662	65.44	263	1,292	13,459	4,300	332.82	
NEVADA	1,788	1,348	2,066	1,029	76.34	69	485	19,257	850	175.26	
NEW HAMPSHIRE	964	2,270	6,451	1,644	72.42	168	1,119	18,249	1,344	120.11	
NEW JERSEY	821	3,239	10,809	6,980	215.50	665	8,116	33,437	22,843	281.46	
NEW MEXICO	3,351	2,661	2,176	2,072	77.87	225	1,090	13,272	3,048	279.63	
NEW YORK	6,415	11,356	4,850	39,378	346.76	1,983	21,144	29,213	44,054	208.35	
NORTH CAROLINA	3,853	8,957	6,369	9,984	111.47	667	5,148	21,146	6,724	130.61	
NORTH DAKOTA	5,402	1,727	876	627	36.31	137	450	8,999	892	198.22	
OHIO	4,981	10,157	5,587	13,783	135.70	1,589	8,761	15,106	30,908	352.79	
OKLAHOMA	4,875	5,521	3,103	3,316	60.06	430	2,206	14,055	2,818	127.74	
OREGON	4,669	5,733	3,364	5,541	96.65	396	2,628	19,566	5,825	205.98	
PENNSYLVANIA	7,759	16,145	5,701	21,769	134.83	2,158	14,358	18,228	27,662	192.66	
RHODE ISLAND	163	446	7,496	212	47.53	264	1,594	16,542	1,956	122.71	
SOUTH CAROLINA	4,957	8,372	4,627	9,162	109.44	724	4,645	17,577	10,262	220.93	
SOUTH DAKOTA	5,690	2,205	1,062	1,340	60.77	307	2,688	6,854	1,922	250.26	
TENNESSEE	5,214	6,650	4,545	9,215	106.53	931	5,322	17,427	11,922	200.61	
TEXAS	14,820	21,631	3,999	14,189	65.60	1,937	17,669	24,991	30,554	172.92	
UTAH	2,511	1,669	1,821	1,478	88.56	109	580	14,578	1,027	177.07	
VERMONT	1,037	1,512	3,995	1,706	112.83	83	334	11,025	676	202.40	
VIRGINIA	4,740	10,633	6,146	11,055	103.97	652	4,912	20,640	9,415	191.67	
WASHINGTON	4,373	5,380	3,371	6,008	111.67	656	5,350	22,344	5,421	101.33	
WEST VIRGINIA	2,235	3,643	4,466	7,217	198.11	213	1,108	14,252	2,915	263.09	
WISCONSIN	8,343	10,881	3,573	11,108	102.09	947	5,333	15,429	8,520	159.76	
WYOMING	2,864	1,517	1,451	713	47.00	124	398	8,794	771	193.72	
SUBTOTAL	225,741	317,837	3,857	357,243	112.40	33,464	266,443	21,814	493,088	185.06	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.



**TABLE 6-C. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989**

**FEDERAL-AID URBAN HIGHWAYS**

STATE	ARTERIAL				STATE	COLLECTOR					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1,539	4,326	7,701	4,726	109.25	1,253	1,699	3,715	4,131	243.14	
ALASKA	118	577	13,397	1,471	254.94	110	98	2,441	394	402.04	
ARIZONA	1,720	10,055	16,016	33,965	337.79	809	776	2,628	1,657	213.53	
ARKANSAS	849	1,946	6,280	3,270	168.04	304	215	1,938	283	131.63	
CALIFORNIA	12,689	82,531	17,820	145,775	176.63	5,037	7,726	4,202	14,681	190.02	
COLORADO	1,767	5,457	8,461	13,843	253.67	621	414	1,826	700	169.08	
CONNECTICUT	1,235	4,493	9,967	14,726	327.75	1,722	2,146	3,414	5,564	259.27	
DELAWARE	163	890	14,959	2,096	235.51	148	325	6,016	670	206.15	
DIST. OF COL.	89	426	13,114	2,597	609.62	144	330	6,279	2,338	708.48	
FLORIDA	1,933	15,231	21,588	63,688	418.15	2,854	5,289	5,460	317	5.99	
GEORGIA	2,174	7,039	8,871	20,138	286.09	1,813	2,744	4,147	7,132	259.91	
HAWAII	143	881	16,879	2,797	317.48	180	458	6,971	1,079	235.59	
IDAHO	461	1,247	7,411	2,570	206.09	276	251	2,492	442	176.10	
ILLINOIS	3,667	15,921	11,895	45,584	286.31	3,099	6,283	5,555	16,389	260.85	
INDIANA	2,913	8,655	8,140	21,157	244.45	1,738	1,510	2,380	3,826	253.38	
IOWA	1,475	2,475	4,597	5,360	216.57	967	636	1,802	1,522	239.31	
KANSAS	1,117	3,098	7,599	8,174	263.85	484	339	1,919	636	187.61	
KENTUCKY	1,116	4,178	10,257	11,256	269.41	812	1,244	4,197	2,806	225.56	
LOUISIANA	1,374	5,052	10,074	11,554	228.70	790	1,076	3,732	282	26.21	
MAINE	344	1,094	8,713	2,654	242.60	361	393	2,983	817	207.89	
MARYLAND	1,462	7,738	14,501	26,546	343.06	685	1,338	5,351	5,011	374.51	
MASSACHUSETTS	3,335	9,642	7,921	26,729	277.21	2,569	2,714	2,894	9,985	367.91	
MICHIGAN	4,502	19,626	11,944	15,392	78.43	1,174	2,080	4,854	1,455	69.95	
MINNESOTA	1,615	6,174	10,474	12,830	207.81	631	718	3,117	1,438	200.28	
MISSISSIPPI	957	2,188	6,264	5,039	230.30	756	730	2,646	1,618	221.64	
MISSOURI	1,864	4,883	7,177	15,695	321.42	595	505	2,325	5,500	1,089.11	
MONTANA	242	678	7,676	439	64.75	100	79	2,164	182	230.38	
NEBRASKA	659	2,026	8,423	6,947	342.89	405	472	3,193	1,537	325.64	
NEVADA	455	2,673	16,095	9,837	368.01	98	141	3,942	399	282.98	
NEW HAMPSHIRE	387	1,200	8,495	2,311	192.58	336	324	2,642	547	168.83	
NEW JERSEY	3,546	14,628	11,302	71,350	487.76	1,814	3,166	4,782	14,092	445.10	
NEW MEXICO	444	2,240	13,822	7,222	322.41	120	142	3,242	524	369.01	
NEW YORK	5,192	25,765	13,596	71,181	276.27	3,560	4,813	3,704	7,927	164.70	
NORTH CAROLINA	2,609	9,481	9,956	15,643	164.99	351	412	3,216	522	126.70	
NORTH DAKOTA	281	467	8,553	812	173.88	207	171	2,263	287	167.84	
OHIO	3,714	12,106	8,930	61,438	507.50	4,124	4,100	2,724	26,152	637.85	
OKLAHOMA	2,240	6,952	8,503	11,940	171.75	753	702	2,554	1,023	145.73	
OREGON	1,073	3,475	8,873	11,999	345.29	921	1,193	3,549	3,041	254.90	
PENNSYLVANIA	3,873	14,155	10,013	28,344	200.24	3,185	4,541	3,906	4,647	102.33	
RHODE ISLAND	439	1,861	11,614	3,553	190.92	499	518	2,844	806	155.60	
SOUTH CAROLINA	631	2,595	11,267	9,364	360.85	535	890	4,558	48	5.59	
SOUTH DAKOTA	106	172	4,446	509	295.93	152	121	2,181	264	218.18	
TENNESSEE	1,350	6,452	13,094	17,153	265.86	1,783	2,303	3,539	5,695	247.29	
TEXAS	6,487	24,952	10,538	34,557	138.49	1,597	1,526	2,618	219	14.35	
UTAH	538	2,810	14,310	8,362	297.58	389	873	6,149	1,908	218.56	
VERMONT	170	492	7,929	1,110	225.61	178	165	2,540	282	170.91	
VIRGINIA	2,036	10,643	14,322	24,905	234.00	1,403	2,143	4,185	5,247	244.84	
WASHINGTON	2,499	9,392	10,297	12,578	133.92	1,736	2,342	3,696	3,755	160.33	
WEST VIRGINIA	404	1,314	8,911	4,235	322.30	397	462	3,188	598	129.44	
WISCONSIN	2,048	5,903	7,897	15,185	257.24	935	820	2,403	2,648	322.93	
WYOMING	245	409	4,574	653	159.66	305	232	2,084	379	163.36	
SUBTOTAL	92,289	388,664	11,538	951,259	244.75	55,615	74,688	3,679	173,402	232.17	
INCOMPLETE DATA											
INCOMPLETE DATA											

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.



**TABLE 6-D. NONFATALLY INJURED PERSONS  
BY STATE AND HIGHWAY SYSTEM - 1989**

**FEDERAL-AID SECONDARY HIGHWAYS**

STATE	MAJOR COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS	
				NUMBER	RATE 1/
COMPLETE DATA					
ALABAMA	11,556	4,449	1,055	2,456	55.20
ALASKA	1,771	482	746	479	99.38
ARIZONA	3,171	2,809	2,427	2,421	86.19
ARKANSAS	7,330	1,905	712	1,740	91.34
CALIFORNIA	11,165	10,030	2,461	39,910	397.91
COLORADO	3,410	1,595	1,281	1,252	78.50
CONNECTICUT	902	1,367	4,152	1,716	125.53
DELAWARE	602	654	2,976	722	110.40
DIST. OF COL.	-	-	-	-	-
FLORIDA	4,377	2,749	1,721	14,759	536.89
GEORGIA	14,000	5,823	1,140	7,483	128.51
HAWAII	435	474	2,985	842	177.64
IDaho	4,153	1,147	757	1,404	122.41
ILLINOIS	12,971	4,026	850	6,312	156.78
INDIANA	9,665	10,176	2,885	8,233	80.91
IOWA	13,535	2,468	500	2,312	93.68
KANSAS	22,608	2,680	325	2,976	111.04
KENTUCKY	7,312	5,007	1,876	9,056	180.87
LOUISIANA	7,353	5,095	1,898	8,822	173.15
MAINE	2,742	1,791	1,790	2,339	130.60
MARYLAND	1,906	2,164	3,111	4,032	186.32
MASSACHUSETTS	2,007	1,629	2,224	1,842	113.08
MICHIGAN	17,046	9,988	1,605	1,094	10.95
MINNESOTA	16,636	3,697	609	3,649	98.70
MISSISSIPPI	11,713	3,469	811	2,567	74.00
MISSOURI	18,091	5,087	770	6,998	137.57
MONTANA	4,748	722	417	583	80.75
NEBRASKA	11,449	1,255	300	1,621	129.16
NEVADA	2,317	806	953	799	99.13
NEW HAMPSHIRE	1,233	1,273	2,829	904	71.01
NEW JERSEY	1,723	3,006	4,780	6,554	218.03
NEW MEXICO	3,930	1,174	818	1,508	128.45
NEW YORK	6,297	5,536	2,409	22,622	408.63
NORTH CAROLINA	10,300	10,470	2,785	15,653	149.50
NORTH DAKOTA	10,599	757	196	350	46.24
OHIO	11,700	8,446	1,978	15,329	181.49
OKLAHOMA	11,730	3,670	857	2,196	59.84
OREGON	7,811	2,624	920	2,959	112.77
PENNSYLVANIA	8,001	5,935	2,032	9,937	167.43
RHODE ISLAND	201	139	1,895	178	128.06
SOUTH CAROLINA	8,531	4,575	1,469	6,926	151.39
SOUTH DAKOTA	10,985	914	228	723	79.10
TENNESSEE	5,455	3,107	1,560	4,918	158.29
TEXAS	32,602	13,718	1,153	14,782	107.76
UTAH	2,646	768	795	811	105.60
VERMONT	1,913	1,081	1,548	1,507	139.41
VIRGINIA	10,205	6,157	1,653	9,932	161.31
WASHINGTON	7,323	4,546	1,701	14,444	317.73
WEST VIRGINIA	6,355	3,304	1,424	8,357	252.94
WISCONSIN	12,979	4,105	867	5,980	145.68
WYOMING	2,266	451	545	344	76.27
SUBTOTAL	399,756	179,300	1,229	285,333	159.14
INCOMPLETE DATA					

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

TABLE 6-E. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID ARTERIAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1	-	-	0	0.00	219	439	5.492	305	69.48	
ALASKA	-	-	-	-	-	3	19	17.352	37	194.74	
ARIZONA	1	1	2,740	0	0.00	33	145	12.038	138	95.17	
ARKANSAS	363	218	1,645	194	88.99	402	525	3.578	511	97.33	
CALIFORNIA	17	35	5,641	12	34.29	1,231	3,825	8.513	6,982	182.54	
COLORADO	7	4	1,566	0	0.00	6	10	4.566	0	0.00	
CONNECTICUT	9	21	6,393	0	0.00	34	133	10.717	283	212.78	
DELAWARE	1	-	-	0	0.00	4	-	-	0	0.00	
DIST. OF COL.	-	-	-	-	-	8	-	-	0	0.00	
FLORIDA	351	1,847	14,417	1,662	89.98	403	2,629	17.873	2,313	87.98	
GEORGIA	-	-	-	-	-	11	-	-	0	0.00	
HAWAII	10	18	4,932	0	0.00	-	-	-	-	-	
IDAH0	-	-	-	-	-	39	95	6.674	151	158.95	
ILLINOIS	-	-	-	-	-	35	65	5.088	192	295.38	
INDIANA	2	264	361,644	54	20.45	49	121	6.765	278	229.75	
IOWA	-	-	-	-	-	13	37	7.798	0	0.00	
KANSAS	-	-	-	-	-	204	730	9.804	2,658	364.11	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	
LOUISIANA	10	18	4,932	0	0.00	285	534	5.133	652	122.10	
MAINE	1	1	2,740	11	1,100.00	3	6	5.479	32	533.33	
MARYLAND	-	-	-	-	-	9	23	7.002	72	313.04	
MASSACHUSETTS	-	-	-	-	-	9	9	8.219	15	166.67	
MICHIGAN	-	-	-	-	-	487	910	5.119	2,986	328.13	
MINNESOTA	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI	279	109	1,070	14	12.84	14	21	4.110	1	4.76	
MISSOURI	-	-	-	-	-	509	3,677	19.792	7	0.19	
MONTANA	62	16	707	4	25.00	38	25	1.802	154	616.00	
NEBRASKA	-	-	-	-	-	-	-	-	-	-	
NEVADA	-	-	-	4	0.00	24	30	3.425	179	596.67	
NEW HAMPSHIRE	19	264	38,068	11	4.17	22	165	20.548	9	5.45	
NEW JERSEY	121	1,011	22,891	1,103	109.10	263	3,295	34.325	3,864	117.27	
NEW MEXICO	12	16	3,653	71	443.75	123	529	11.783	1,229	232.33	
NEW YORK	-	-	-	-	-	114	531	12.761	0	0.00	
NORTH CAROLINA	257	116	1,237	158	136.21	855	1,780	5.704	1,662	93.37	
NORTH DAKOTA	2	1	1,370	0	0.00	1	1	2.740	0	0.00	
OHIO	-	-	-	-	-	-	-	-	-	-	
OKLAHOMA	224	381	4,660	104	27.30	161	117	1.991	98	83.76	
OREGON	167	165	2,707	98	59.39	55	148	7.372	188	127.03	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	
RHODE ISLAND	3	9	8,219	0	0.00	-	-	-	-	-	
SOUTH CAROLINA	-	-	-	-	-	259	403	4.263	1,868	463.52	
SOUTH DAKOTA	14	2	391	2	100.00	3	3	2.740	3	100.00	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	
TEXAS	3	2	1,826	0	0.00	1,860	6,524	9.610	1,849	28.34	
UTAH	34	13	1,048	2	15.38	42	47	3.066	119	253.19	
VERMONT	-	-	-	-	-	-	-	-	-	-	
VIRGINIA	-	-	-	-	-	125	806	17.666	115	14.27	
WASHINGTON	-	-	-	-	-	10	43	11.781	0	0.00	
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	
WISCONSIN	3	1	913	0	0.00	102	302	8.112	615	203.64	
WYOMING	253	22	238	115	\$22.73	3	5	4.566	0	0.00	
SUBTOTAL	2,537	4,782	5,164	3,619	75.68	8,064	28,707	9.753	29,565	102.99	
INCOMPLETE DATA											
INCOMPLETE DATA											
1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.											

TABLE 6-F. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

## NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL					STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS	
				NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA						COMPLETE DATA					
ALABAMA	6,992	1,119	438	693	61.93	ALABAMA	463	227	1,343	1,772	780.62
ALASKA	995	160	441	234	146.25	ALASKA	45	44	2,679	97	220.45
ARIZONA	3,627	424	320	416	98.11	ARIZONA	930	850	2,504	1,105	130.00
ARKANSAS	11,652	1,878	442	1,748	93.08	ARKANSAS	702	357	1,393	1,064	298.04
CALIFORNIA	11,638	3,963	933	15,859	400.18	CALIFORNIA	2,686	3,759	3,834	7,017	186.67
COLORADO	15,917	2,043	352	2,073	101.47	COLORADO	527	273	2,979	1,221	213.09
CONNECTICUT	1,194	593	1,361	862	145.36	CONNECTICUT	195	513	3,049	513	236.41
DELAWARE	158	69	1,196	134	194.20	DELAWARE	23	16	1,906	68	425.00
DIST. OF COL.						DIST. OF COL.	12			0	0.00
FLORIDA	5,492	1,726	861	6,041	350.00	FLORIDA	2,117	3,735	4,834	23	0.62
GEORGIA	7,297	1,159	435	1,293	111.56	GEORGIA	2			0	0.00
HAWAII	136	179	3,606	25	13.97	HAWAII	1	2	5,479	0	0.00
IDAHO	4,638	294	174	86	29.25	IDAHO	117	90	2,107	76	84.44
ILLINOIS	4,884	1,545	867	1,923	124.47	ILLINOIS	199	262	3,607	536	204.58
INDIANA	10,390	1,890	498	1,812	95.87	INDIANA	215	187	2,383	1,206	644.92
IOWA	16,396	728	122	868	119.23	IOWA	80	41	1,404	0	0.00
KANSAS	9,394	291	85	377	129.55	KANSAS	295	351	3,260	811	231.05
KENTUCKY	9,312	1,884	554	4,268	226.54	KENTUCKY	96	181	5,166	0	0.00
LOUISIANA	4,305	1,410	897	2,033	144.18	LOUISIANA	347	210	1,658	71	33.81
MAINE	2,791	965	947	1,700	176.17	MAINE	31	21	1,856	38	180.95
MARYLAND	1,893	744	1,077	1,496	201.08	MARYLAND	488	613	3,441	1,332	217.29
MASSACHUSETTS	1,951	420	590	1,174	279.52	MASSACHUSETTS	156	136	2,388	256	188.24
MICHIGAN	7,651	1,571	563	16,219	1,032.40	MICHIGAN	1,677	1,769	2,890	728	41.15
MINNESOTA	11,870	1,067	246	1,147	107.50	MINNESOTA	1,214	1,796	4,053	3,939	219.32
MISSISSIPPI	2,927	350	328	134	38.29	MISSISSIPPI	2	1	1,370	0	0.00
MISSOURI	5,439	390	196	482	123.59	MISSOURI	885	908	2,811	166	18.28
MONTANA	11,305	531	129	483	90.96	MONTANA	128	92	1,969	31	33.70
NEBRASKA	9,235	286	85	536	187.41	NEBRASKA					
NEVADA	2,463	212	236	223	105.19	NEVADA					
NEW HAMPSHIRE	1,228	422	942	363	86.02	NEW HAMPSHIRE	334	389	3,191	1,164	299.23
NEW JERSEY	1,288	1,001	2,129	2,920	291.71	NEW JERSEY	3	4	3,653	0	0.00
NEW MEXICO	3,015	328	298	289	88.11	NEW MEXICO	94	83	2,419	318	383.13
NEW YORK	10,794	5,208	1,322	20,228	388.40	NEW YORK	182	338	5,088	1,307	386.69
NORTH CAROLINA	9,238	3,872	1,148	6,553	169.24	NEW YORK	385	801	5,700	697	87.02
NORTH DAKOTA	8,000	235	80	122	51.91	NORTH CAROLINA	1,017	764	2,058	580	75.92
OHIO	7,188	2,037	776	5,597	274.77	NORTH DAKOTA	21	10	1,305	3	30.00
OKLAHOMA	12,773	1,294	278	331	25.58	OHIO					
OREGON	9,147	764	229	497	65.05	OKLAHOMA	451	290	1,762	455	156.90
PENNSYLVANIA	8,402	2,680	874	5,061	188.84	OREGON	178	185	2,847	197	106.49
RHODE ISLAND	153	65	1,164	51	78.46	PENNSYLVANIA					
SOUTH CAROLINA	4,005	630	431	775	123.02	RHODE ISLAND					
SOUTH DAKOTA	7,333	173	65	140	80.92	SOUTH CAROLINA	624	435	1,910	946	217.47
TENNESSEE	10,801	2,278	578	3,521	154.57	SOUTH DAKOTA	10	5	2,466	7	77.78
TEXAS	23,837	2,912	335	2,137	73.39	TENNESSEE					
UTAH	4,667	268	157	333	124.25	TEXAS	5,288	6,285	3,256	91	1.45
VERMONT	986	182	506	338	185.71	UTAH	87	47	1,480	97	206.38
VIRGINIA	2,405	537	537	1,048	222.51	VERMONT					
WASHINGTON	6,703	1,465	599	5,764	393.45	VIRGINIA					
WEST VIRGINIA	2,158	324	411	765	236.11	WASHINGTON	42	66	4,305	0	0.00
WISCONSIN	7,153	1,047	401	1,858	177.46	WEST VIRGINIA	3			0	0.00
WYOMING	7,636	1,420	151	279	66.43	WISCONSIN	493	422	2,345	1,749	414.45
SUBTOTAL	330,852	55,967	463	123,309	220.32	WYOMING	14	5	978	0	0.00
						SUBTOTAL	22,859	26,571	3,185	29,681	111.70
INCOMPLETE DATA						INCOMPLETE DATA					

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.



TABLE 6-G. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

NONFEDERAL-AID LOCAL HIGHWAYS

STATE	RURAL				STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	NONFATALLY INJURED PERSONS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS	
			NUMBER	RATE 1/					NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA					
ALABAMA	48,622	3,638	205	5,411	148.74	12,256	4,500	1,006	8,891	197.58
ALASKA	5,702	401	193	1,235	307.98	1,418	332	641	45	13.55
ARIZONA	32,819	3,331	278	3,057	91.77	9,621	4,127	1,175	7,594	184.01
ARKANSAS	44,969	1,079	66	1,306	121.04	4,799	635	363	2,473	369.45
CALIFORNIA	57,825	2,296	109	20,769	904.57	48,525	13,809	780	34,489	249.76
COLORADO	42,159	821	53	1,561	190.13	7,672	2,135	762	2,395	112.18
CONNECTICUT	6,142	961	429	1,488	154.84	6,870	1,745	696	5,811	333.01
DELAWARE	2,733	464	465	751	161.85	1,109	510	1,260	718	140.78
DIST. OF COL.	-	-	-	-	-	659	347	1,443	1,110	319.88
FLORIDA	42,358	3,092	200	12,704	410.87	38,857	20,821	1,468	53,751	258.16
GEORGIA	56,593	6,659	322	5,438	81.66	14,765	13,154	2,441	11,679	88.79
HAWAII	1,689	550	892	683	124.18	937	1,193	3,488	1,820	152.56
IDAH0	46,931	862	50	1,799	208.70	1,376	156	311	1,145	733.97
ILLINOIS	76,933	3,311	178	6,616	199.82	22,459	7,092	865	34,751	490.00
INDIANA	48,825	4,887	274	7,790	159.40	11,852	4,792	1,108	6,032	125.88
IOWA	65,135	1,492	63	3,135	210.12	5,384	1,146	583	3,509	306.20
KANSAS	83,742	1,413	46	2,737	193.70	6,395	1,611	690	4,197	260.52
KENTUCKY	41,560	1,952	129	4,799	245.85	4,933	1,704	946	5,083	298.30
LOUISIANA	31,308	2,050	179	7,126	347.61	8,792	7,004	2,183	14,030	200.31
MAINE	12,111	983	222	2,742	278.94	1,482	233	431	577	247.64
MARYLAND	10,723	1,240	317	2,723	219.60	8,726	1,680	527	10,423	620.42
MASSACHUSETTS	8,060	1,030	350	7,306	709.32	12,948	5,152	1,090	30,828	598.37
MICHIGAN	59,262	2,560	118	24,296	949.06	17,783	3,960	610	57,096	1,441.82
MINNESOTA	77,580	2,448	86	4,559	186.23	9,801	2,581	721	3,821	148.04
MISSISSIPPI	44,070	2,809	175	2,359	83.98	5,121	1,695	907	2,475	146.02
MISSOURI	73,385	3,369	126	11,048	327.93	11,114	2,665	657	8,487	318.46
MONTANA	46,482	778	46	862	110.80	1,611	560	952	2,610	466.07
NEBRASKA	59,450	1,247	57	2,491	199.76	3,586	669	511	1,739	259.94
NEVADA	34,713	304	24	292	96.05	2,050	604	807	1,752	290.07
NEW HAMPSHIRE	8,762	542	169	1,321	243.73	1,456	253	476	340	134.39
NEW JERSEY	7,712	886	315	3,761	424.49	15,801	10,977	1,903	19,675	179.24
NEW MEXICO	38,153	2,020	145	1,898	93.96	4,252	953	614	3,358	352.36
NEW YORK	48,902	3,385	190	34,591	1,021.89	25,822	8,195	869	43,715	533.43
NORTH CAROLINA	50,997	3,522	190	29,642	841.62	13,338	6,895	1,416	31,404	455.46
NORTH DAKOTA	60,046	677	31	564	83.31	1,118	300	735	292.67	292.67
OHIO	57,410	5,974	285	16,589	277.69	21,167	10,146	1,313	27,622	272.25
OKLAHOMA	69,253	1,820	72	4,411	242.36	7,849	3,140	1,096	5,234	166.69
OREGON	63,936	1,470	63	1,206	82.04	6,350	1,128	487	2,638	233.87
PENNSYLVANIA	63,130	5,439	236	12,572	231.15	18,200	5,949	896	35,753	600.99
RHODE ISLAND	943	27	78	69	255.56	3,149	827	720	1,169	141.35
SOUTH CAROLINA	36,533	2,092	157	4,575	218.69	6,515	644	271	3,864	600.00
SOUTH DAKOTA	46,969	588	34	868	147.62	1,132	252	610	9,521	228.17
TENNESSEE	46,603	1,587	93	4,916	309.77	10,882	3,202	806	9,521	297.35
TEXAS	143,504	4,233	81	18,648	440.54	70,529	27,051	1,051	94,605	349.73
UTAH	26,794	519	53	5,279	1,017.15	4,230	1,595	1,033	1,081	67.77
VERMONT	8,701	483	152	967	200.21	704	340	1,323	247	72.65
VIRGINIA	33,796	3,170	257	4,687	147.85	10,540	5,377	1,398	7,243	134.70
WASHINGTON	46,093	1,110	66	9,596	864.50	11,242	3,011	734	8,591	285.32
WEST VIRGINIA	20,248	881	119	2,170	246.31	1,945	429	604	262	61.07
WISCONSIN	66,453	3,071	127	6,316	205.67	9,717	5,000	1,410	5,296	105.92
WYOMING	23,741	354	41	354	100.00	1,176	155	361	476	307.10
SUBTOTAL	2,130,460	99,877	128	312,083	312.47	530,015	202,431	1,046	622,878	307.70
INCOMPLETE DATA						INCOMPLETE DATA				

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

# TABLE 6-H. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1989

## TOTAL RURAL AND URBAN HIGHWAYS

STATE	RURAL				STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER				RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA					
ALABAMA	73,691	21,789	810	16,341	75.00	18,976	3,087	25,483	134.29	
ALASKA	10,462	2,205	577	12,840	128.80	1,810	2,546	2,710	161.12	
ARIZONA	43,919	14,659	914	12,839	87.58	13,479	4,097	48,739	241.80	
ARKANSAS	69,466	12,988	512	10,073	77.56	7,656	2,657	11,520	155.13	
CALIFORNIA	91,578	52,039	1,557	102,548	197.06	72,720	7,514	261,097	130.91	
COLORADO	66,132	11,865	492	10,066	84.84	15,712	3,834	27,495	174.99	
CONNECTICUT	9,045	6,596	1,998	6,984	105.88	10,869	4,937	39,558	201.96	
DELAWARE	3,828	2,900	2,076	3,070	105.86	1,589	6,114	5,966	168.25	
DIST. OF COL.	-	-	-	-	-	3,414	8,488	12,964	379.73	
FLORIDA	59,305	31,385	1,450	57,092	181.91	77,492	4,364	172,908	223.13	
GEORGIA	87,345	33,769	1,059	29,997	88.83	41,936	5,360	71,259	169.92	
HAWAII	2,663	2,445	2,515	3,210	131.29	5,305	10,243	9,500	179.08	
IOWA	58,911	5,739	267	5,835	101.67	2,406	3,055	5,081	189.38	
ILLINOIS	103,957	25,478	671	27,839	109.27	31,921	4,791	147,022	263.39	
INDIANA	73,941	32,090	1,189	33,716	105.07	24,102	3,709	42,019	174.34	
IOWA	103,778	14,505	383	11,653	80.34	8,066	2,519	16,384	203.12	
KANSAS	124,169	12,364	273	10,687	86.44	9,549	2,911	21,379	223.89	
KENTUCKY	62,098	18,826	831	26,860	142.68	13,339	4,800	27,255	204.33	
LOUISIANA	46,277	18,180	1,076	25,395	139.69	19,734	4,416	42,039	213.03	
MAINE	19,781	8,593	1,190	11,553	134.45	12,459	3,505	7,074	224.86	
MARYLAND	16,333	13,311	2,233	17,178	129.05	25,611	5,769	63,067	246.25	
MASSACHUSETTS	13,201	8,534	1,771	12,439	145.76	20,606	5,010	79,717	211.56	
MICHIGAN	90,968	31,453	947	68,748	218.57	27,028	4,910	89,475	184.72	
MINNESOTA	115,458	17,965	426	15,612	86.90	14,095	3,776	29,792	153.35	
MISSISSIPPI	64,988	15,429	650	10,658	69.08	7,324	2,793	13,550	181.49	
MISSOURI	104,230	23,279	612	24,105	103.55	15,847	4,289	44,468	179.25	
MONTANA	69,092	6,256	248	4,962	79.32	2,268	1,994	3,691	185.11	
NEBRASKA	87,509	8,713	273	7,976	91.54	4,950	2,805	15,113	298.20	
NEVADA	41,780	4,198	275	3,204	76.32	3,076	4,540	15,424	296.05	
NEW HAMPSHIRE	12,387	6,101	1,349	4,425	72.53	3,718	4,216	4,612	124.05	
NEW JERSEY	11,791	11,073	2,573	21,748	196.41	22,455	5,957	137,951	282.54	
NEW MEXICO	49,367	9,503	527	7,395	77.82	48,825	5,440	17,570	277.30	
NEW YORK	73,263	31,001	1,159	119,692	386.09	75,058	5,454	178,937	238.40	
NORTH CAROLINA	75,165	32,874	1,198	65,004	197.74	28,003	4,025	57,874	206.67	
NORTH DAKOTA	84,579	4,285	139	1,918	44.76	1,805	2,374	2,951	188.68	
OHIO	82,126	34,452	1,149	54,033	156.84	49,966	4,372	159,239	318.69	
OKLAHOMA	99,578	16,259	447	11,368	69.92	16,577	3,756	23,918	144.28	
OREGON	86,325	14,192	450	11,244	79.23	11,528	3,499	25,896	222.70	
PENNSYLVANIA	88,447	37,839	1,172	52,396	138.47	27,830	4,530	100,193	217.74	
RHODE ISLAND	1,484	889	1,641	546	61.42	4,400	3,643	8,100	138.44	
SOUTH CAROLINA	54,699	21,165	1,060	22,541	106.50	11,615	3,384	27,364	235.59	
SOUTH DAKOTA	71,622	5,157	197	3,481	67.50	1,547	2,414	3,346	216.29	
TENNESSEE	68,854	22,151	881	24,472	110.48	23,488	4,226	47,695	203.06	
TEXAS	217,044	53,693	678	54,953	102.35	105,819	3,270	188,077	177.73	
UTAH	37,430	5,376	394	9,117	169.59	8,539	4,292	13,862	162.34	
VERMONT	12,923	4,204	891	4,968	118.17	1,561	3,555	2,443	156.50	
VIRGINIA	52,228	27,501	1,443	28,756	104.56	31,836	5,794	50,654	159.11	
WASHINGTON	65,011	15,861	668	37,359	235.54	16,428	4,565	36,633	133.83	
WEST VIRGINIA	31,425	10,564	921	19,557	185.13	3,928	3,928	8,796	201.01	
WISCONSIN	95,447	22,798	654	26,645	116.87	20,288	3,869	35,463	174.80	
WYOMING	37,624	4,392	320	2,827	64.37	1,917	1,917	2,408	177.32	
SUBTOTAL	3,122,724	848,883	745	1,157,925	136.41	1,258,157	4,573	2,485,731	197.57	
INCOMPLETE DATA					INCOMPLETE DATA					

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.





## **SECTION III - OTHER RATES**

### **A. Highway Mileage**

Vehicle mileage rates for the United States are the most common measure of safety performance (Table 1). For some purposes, rates per mile of highway may be more useful (Table 7). Note that, because of the concentration of travel on highway systems with the fewest fatalities per vehicle mile, highways on these systems tend to have the highest number of fatalities per highway mile.

### **B. Population**

Population rates are most useful for comparing motor vehicle accidents with other public health problems. In 1988, only heart disease, cancer and stroke were responsible for more deaths, according to the National Center for Health Statistics. State rates per thousand residents are listed in Table 8 for fatal and nonfatal injury accidents, fatalities, and nonfatally injured persons.

### **C. Licensed Drivers**

The number of accidents per licensed driver reflects both the care with which drivers operate their vehicles and the amount of travel under various conditions. States' accident, fatality, and injury rates per licensed driver are listed in Table 9.

### **D. Registered Vehicles**

As is the case with licensed drivers, the number of accidents per registered vehicle is affected both by the care with which the vehicle is driven and the amount of travel under various conditions. States' rates per registered vehicle are listed in Table 10.

TABLE 7. U.S. HIGHWAY-MILE RATES BY HIGHWAY SYSTEM - 1989

HIGHWAY SYSTEM	HIGHWAY MILES 2/	VEHICLE MILES (MILLIONS) 2/	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS 4/		FATALITIES		NONFATAL INJURY PERSONS 4/	
				NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/
INTERSTATE (ARTERIAL)											
RURAL	33,378	191,120	5,687	2,291	68.64	46,658	1,397.87	2,696	80.77	76,338	2,287.08
URBAN	11,471	270,652	7,385	2,090	182.20	128,965	11,242.70	2,307	201.12	185,858	16,202.42
TOTAL	44,849	461,772	8,209	4,381	97.68	175,623	3,915.87	5,003	111.55	262,196	5,846.20
OTHER FEDERAL-AID PRIMARY (ARTERIAL)											
RURAL	225,741	317,837	3,857	8,511	37.70	211,965	938.97	10,042	44.48	357,243	1,582.53
URBAN	33,464	266,443	1,814	3,820	114.15	312,246	9,330.80	4,199	125.48	493,088	14,734.88
TOTAL	259,205	584,280	6,176	12,331	47.57	524,211	2,022.38	14,241	54.94	850,331	3,280.53
FEDERAL-AID URBAN											
ARTERIAL	92,289	388,664	1,538	7,074	76.65	616,472	6,679.80	7,625	82.62	951,259	10,307.39
COLLECTOR	55,615	74,688	3,679	1,149	20.66	118,018	2,122.05	1,232	22.15	173,402	3,117.90
TOTAL (ALL URBAN)	147,904	463,352	8,583	8,223	55.60	734,490	4,965.99	8,857	59.88	1,124,661	7,603.99
FEDERAL-AID SECONDARY (COLLECTOR)											
TOTAL (ALL RURAL)	399,756	179,300	1,229	5,887	14.73	181,613	454.31	6,724	16.82	285,333	713.77
NON-FEDERAL-AID ARTERIAL											
RURAL	2,537	4,782	5,164	101	39.81	2,124	837.21	130	51.24	3,619	1,426.49
URBAN	8,064	28,707	9,753	265	32.86	19,379	2,403.15	297	36.63	29,565	3,666.29
TOTAL	10,601	33,489	8,655	366	34.53	21,503	2,028.39	427	40.28	33,184	3,130.27
NON-FEDERAL-AID COLLECTOR											
RURAL	330,852	55,967	463	1,768	5.34	80,007	241.82	1,936	5.85	123,309	372.70
URBAN	22,859	28,571	3,185	272	11.90	20,644	903.10	283	12.38	29,681	1,298.44
TOTAL	353,711	82,538	639	2,040	5.77	100,651	284.56	2,219	6.27	152,990	432.53
NON-FEDERAL-AID LOCAL											
RURAL	2,130,460	99,877	128	4,158	1.95	211,088	99.08	4,529	2.13	312,083	146.49
URBAN	530,015	202,431	1,046	3,332	6.29	435,157	821.03	3,555	6.71	622,878	1,175.21
TOTAL	2,660,475	302,308	311	7,490	2.82	646,245	242.91	8,084	3.04	934,961	351.43
ALL FEDERAL-AID											
RURAL	658,875	688,257	2,862	16,689	25.33	440,236	668.16	19,462	29.54	718,914	1,091.12
URBAN	192,839	1,000,447	4,214	14,133	73.29	6,096,800	6,096.80	15,363	79.67	1,803,607	9,352.92
TOTAL	851,714	1,688,704	5,432	30,822	36.19	1,615,937	1,897.28	34,825	40.89	2,522,521	2,961.70
ALL NON-FEDERAL-AID											
RURAL	2,463,849	160,626	179	6,027	2.45	293,219	119.01	6,595	2.68	439,011	178.18
URBAN	560,938	257,709	1,259	3,869	6.90	475,180	847.12	4,135	7.37	682,124	1,216.04
TOTAL	3,024,787	418,335	379	9,896	3.27	768,399	254.03	10,730	3.55	1,121,135	370.65
NON-INTERSTATE											
RURAL	3,089,346	657,763	583	20,425	6.61	686,797	222.31	23,361	7.56	1,081,587	350.10
URBAN	742,306	987,504	3,645	15,912	21.44	1,521,916	2,050.25	17,191	23.16	2,299,873	3,098.28
TOTAL	3,831,652	1,645,267	1,149	36,337	9.27	2,208,713	563.25	40,552	10.34	3,381,460	862.32
TOTAL											
RURAL	3,122,724	848,883	745	22,716	7.27	733,455	234.88	26,057	8.34	1,157,925	370.81
URBAN	753,777	1,258,156	4,573	18,002	23.88	1,650,881	2,190.15	19,498	25.87	2,485,731	3,297.70
TOTAL	3,876,501	2,107,039	1,489	40,718	10.50	2,384,336	615.07	45,555	11.75	3,643,656	939.33

1/ U.S. ESTIMATES EXCLUDE THE COMMONWEALTH OF PUERTO RICO AND THE TERRITORIES OF AMERICAN SAMOA, GUAM, AND VIRGIN ISLANDS. ESTIMATES FOR FATAL ACCIDENTS, FATALITIES, NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS ARE BASED ON THE PARTIAL DATA REPORTED BY STATES WHICH ARE DISPLAYED IN THE FOLLOWING TABLES, TOGETHER WITH TOTALS REPORTED BY MOST STATES.

2/ MILEAGE AND TRAVEL DATA ARE FROM THE HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS) FOR 1990. FEDERAL-AID HIGHWAY MILEAGE IS FROM

HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1990 AND VEHICLE MILES OF TRAVEL ARE FROM THE HPMS AREAWIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1989. FEDERAL HIGHWAY ADMINISTRATION ESTIMATES WERE MADE FOR MAJOR HIGHWAY CATEGORIES WHERE COMPLETE FUNCTIONAL OR FEDERAL-AID SYSTEM DATA WERE NOT REPORTED.

3/ RATES ARE PER 1,000 HIGHWAY MILES.

4/ ESTIMATES OF NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA.

**TABLE 8. FATAL AND INJURY ACCIDENT DATA  
RELATED TO POPULATION - 1989**

STATE	POPULATION		RATES PER THOUSAND PERSONS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER CAPITA	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	4,118	9,899	0.22	0.25	6.88	10.16
ALASKA	527	7,376	0.15	0.16	6.87	10.53
ARIZONA	3,556	9,791	0.22	0.25	10.64	17.32
ARKANSAS	2,406	8,485	0.24	0.27	4.86	8.97
CALIFORNIA	29,063	8,653	0.17	0.19	8.15	12.51
COLORADO	3,317	8,314	0.15	0.16	7.39	11.32
CONNECTICUT	3,239	8,084	0.12	0.13	10.09	14.37
DELAWARE	673	9,578	0.16	0.17	8.53	13.43
DIST. OF COL.	604	5,652	0.12	0.12	14.91	21.46
FLORIDA	12,671	8,593	0.21	0.24	11.18	18.15
GEORGIA	6,436	11,763	0.22	0.25	10.14	15.73
HAWAII	1,112	6,969	0.12	0.13	7.99	11.43
IDAHO	1,014	8,306	0.21	0.23	6.81	10.77
ILLINOIS	11,658	6,973	0.13	0.15	10.14	15.00
INDIANA	5,593	10,047	0.16	0.17	11.04	13.54
IOWA	2,840	7,948	0.16	0.18	6.89	9.87
KANSAS	2,513	8,720	0.15	0.17	8.54	12.76
KENTUCKY	3,727	8,630	0.18	0.21	9.53	14.52
LOUISIANA	4,382	8,652	0.18	0.20	9.18	15.39
MAINE	1,222	9,606	0.15	0.16	10.53	15.24
MARYLAND	4,694	8,292	0.14	0.15	10.71	17.10
MASSACHUSETTS	5,913	7,816	0.11	0.12	12.39	15.59
MICHIGAN	9,273	8,615	0.16	0.18	11.24	17.06
MINNESOTA	4,353	8,590	0.12	0.14	7.25	10.43
MISSISSIPPI	2,621	8,735	0.24	0.28	4.96	9.24
MISSOURI	5,159	9,321	0.18	0.20	8.64	13.29
MONTANA	806	10,236	0.20	0.22	7.11	10.74
NEBRASKA	1,611	8,554	0.16	0.18	9.62	14.33
NEVADA	1,111	8,468	0.25	0.28	11.31	16.77
NEW HAMPSHIRE	1,107	8,870	0.15	0.17	5.62	8.16
NEW JERSEY	7,336	8,165	0.11	0.12	13.73	21.77
NEW MEXICO	1,528	10,366	0.31	0.35	10.53	16.34
NEW YORK	17,950	5,909	0.12	0.13	11.34	16.64
NORTH CAROLINA	6,571	9,264	0.20	0.22	11.70	18.70
NORTH DAKOTA	660	8,862	0.12	0.12	5.18	7.38
OHIO	10,907	7,740	0.14	0.16	11.70	19.55
OKLAHOMA	3,224	10,185	0.18	0.20	7.05	10.94
OREGON	2,820	9,156	0.19	0.22	8.24	13.17
PENNSYLVANIA	12,040	6,965	0.14	0.16	8.18	12.67
RHODE ISLAND	998	6,754	0.10	0.10	7.01	8.66
SOUTH CAROLINA	3,512	9,334	0.25	0.28	8.82	14.21
SOUTH DAKOTA	715	9,376	0.19	0.21	6.44	9.55
TENNESSEE 1/	4,940	9,239	0.20	0.22	9.47	14.61
TEXAS	16,991	9,388	0.17	0.20	9.03	14.30
UTAH	1,707	8,152	0.16	0.18	9.78	13.46
VERMONT	567	10,168	0.19	0.20	8.70	13.07
VIRGINIA	6,098	9,731	0.15	0.16	8.81	13.02
WASHINGTON	4,761	9,081	0.15	0.16	11.06	15.54
WEST VIRGINIA	1,857	8,045	0.22	0.25	8.29	15.27
WISCONSIN	4,867	8,853	0.15	0.17	8.77	12.76
WYOMING	475	12,105	0.24	0.27	7.06	11.02
U.S. TOTAL	247,843	8,501	0.16	0.18	9.62	14.70

1/ ESTIMATES OF NONFATAL INJURY ACCIDENTS AND NONFATALLY INJURED PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA.



**TABLE 9. FATAL AND INJURY ACCIDENT DATA  
RELATED TO LICENSED DRIVERS - 1989**

STATE	LICENSED DRIVERS		RATES PER THOUSAND DRIVERS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER DRIVER	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	2,844	14,334	0.32	0.36	9.97	14.71
ALASKA	300	12,957	0.26	0.28	12.08	18.50
ARIZONA	2,372	14,678	0.32	0.37	15.95	25.96
ARKANSAS	1,711	11,931	0.34	0.38	6.83	12.62
CALIFORNIA	19,570	12,850	0.25	0.28	12.10	18.58
COLORADO	2,116	13,033	0.23	0.25	11.58	17.75
CONNECTICUT	2,374	11,029	0.16	0.17	13.77	19.60
DELAWARE	481	13,401	0.22	0.24	11.94	18.79
DIST. OF COL.	394	8,665	0.18	0.18	22.85	32.90
FLORIDA	9,006	12,089	0.30	0.33	15.73	25.54
GEORGIA	4,318	17,532	0.33	0.38	15.12	23.45
HAWAII	657	11,796	0.20	0.23	13.52	19.35
IDAHO	706	11,929	0.30	0.34	9.77	15.46
ILLINOIS	7,205	11,283	0.21	0.24	16.40	24.27
INDIANA	3,838	14,641	0.23	0.25	16.09	19.73
IOWA	1,922	11,743	0.23	0.27	10.18	14.59
KANSAS	1,704	12,860	0.22	0.25	12.59	18.82
KENTUCKY	2,392	13,447	0.29	0.32	14.84	22.62
LOUISIANA	2,574	14,730	0.30	0.34	15.63	26.20
MAINE	887	13,234	0.20	0.22	14.51	21.00
MARYLAND	3,098	12,564	0.21	0.23	16.23	25.90
MASSACHUSETTS	4,258	10,853	0.15	0.16	17.21	21.64
MICHIGAN	6,422	12,440	0.23	0.25	16.22	24.64
MINNESOTA	2,429	15,394	0.22	0.25	13.00	18.69
MISSISSIPPI	1,842	12,429	0.34	0.39	7.05	13.14
MISSOURI	3,537	13,595	0.26	0.30	12.61	19.39
MONTANA	598	13,796	0.27	0.30	9.58	14.47
NEBRASKA	1,065	12,940	0.24	0.28	14.55	21.68
NEVADA	794	11,849	0.35	0.39	15.83	23.46
NEW HAMPSHIRE	809	12,137	0.20	0.23	7.69	11.17
NEW JERSEY	5,615	10,667	0.14	0.16	17.94	28.44
NEW MEXICO	1,063	14,900	0.44	0.51	15.13	23.49
NEW YORK	10,178	10,420	0.20	0.22	20.00	29.34
NORTH CAROLINA	4,484	13,576	0.29	0.33	17.14	27.40
NORTH DAKOTA	425	13,762	0.18	0.19	8.05	11.46
OHIO	7,370	11,454	0.21	0.24	17.31	28.94
OKLAHOMA	2,293	14,320	0.25	0.28	9.91	15.39
OREGON	2,190	11,790	0.25	0.29	10.61	16.96
PENNSYLVANIA	7,797	10,755	0.22	0.24	12.63	19.57
RHODE ISLAND	676	9,970	0.14	0.15	10.34	12.79
SOUTH CAROLINA	2,339	14,015	0.38	0.43	13.24	21.34
SOUTH DAKOTA	492	13,626	0.27	0.31	9.36	13.88
TENNESSEE 1/	3,432	13,298	0.28	0.32	13.64	21.03
TEXAS	11,104	14,365	0.26	0.30	13.81	21.89
UTAH	1,027	13,549	0.26	0.30	16.26	22.37
VERMONT	410	14,061	0.27	0.28	12.04	18.08
VIRGINIA	4,234	14,014	0.22	0.24	12.69	18.76
WASHINGTON	3,273	13,209	0.21	0.24	16.09	22.61
WEST VIRGINIA	1,306	11,440	0.31	0.36	11.79	21.71
WISCONSIN	3,294	13,080	0.22	0.25	12.95	18.85
WYOMING	333	17,267	0.34	0.38	10.08	15.72
U.S. TOTAL	165,554	12,727	0.25	0.28	14.40	22.01

1/ ESTIMATES OF NONFATAL INJURY ACCIDENTS AND NONFATALLY INJURED PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA.

**TABLE 10. FATAL AND INJURY ACCIDENT DATA  
RELATED TO VEHICLE REGISTRATIONS - 1989**

STATE	REGISTERED VEHICLES		RATES PER THOUSAND VEHICLES			
	NUMBER (THOUSANDS)	VEHICLE MILES PER VEHICLE	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	3.623	11.252	0.25	0.28	7.82	11.54
ALASKA	364	10.679	0.22	0.23	9.95	15.25
ARIZONA	2.775	12.546	0.28	0.32	13.63	22.19
ARKANSAS	1.433	14.246	0.40	0.45	8.15	15.07
CALIFORNIA	21.671	11.605	0.23	0.25	10.93	16.78
COLORADO	3.154	8.743	0.15	0.17	7.77	11.91
CONNECTICUT	2.651	9.877	0.14	0.15	12.33	17.56
DELAWARE	522	12.349	0.21	0.22	11.00	17.31
DIST. OF COL.	259	13.181	0.27	0.28	34.76	50.05
FLORIDA	11.207	9.715	0.24	0.27	12.64	20.52
GEORGIA	5.270	14.365	0.27	0.31	12.39	19.21
HAWAII	736	10.530	0.18	0.20	12.07	17.27
IDAHO	1.039	8.106	0.20	0.23	6.64	10.51
ILLINOIS	8.022	10.134	0.19	0.22	14.73	21.80
INDIANA	4.322	13.001	0.20	0.22	14.29	17.52
IOWA	2.583	8.738	0.17	0.20	7.58	10.85
KANSAS	1.987	11.028	0.19	0.22	10.80	16.14
KENTUCKY	2.843	11.314	0.24	0.27	12.49	19.03
LOUISIANA	2.976	12.740	0.26	0.29	13.52	22.66
MAINE	939	12.502	0.19	0.21	13.71	19.84
MARYLAND	3.527	11.035	0.19	0.21	14.25	22.75
MASSACHUSETTS	3.804	12.149	0.17	0.18	19.26	24.23
MICHIGAN	7.139	11.191	0.21	0.23	14.59	22.16
MINNESOTA	3.283	11.390	0.16	0.18	9.62	13.83
MISSISSIPPI	1.867	12.263	0.33	0.39	6.96	12.97
MISSOURI	3.844	12.510	0.24	0.27	11.60	17.84
MONTANA	741	11.134	0.22	0.24	7.73	11.68
NEBRASKA	1.362	10.118	0.19	0.22	11.38	16.95
NEVADA	826	11.390	0.33	0.37	15.22	22.55
NEW HAMPSHIRE	936	10.490	0.18	0.20	6.65	9.65
NEW JERSEY	5.636	10.628	0.14	0.16	17.87	28.34
NEW MEXICO	1.295	12.231	0.36	0.42	12.42	19.28
NEW YORK	10.021	10.584	0.21	0.23	20.31	29.80
NORTH CAROLINA	5.113	11.906	0.26	0.29	15.03	24.03
NORTH DAKOTA	636	9.197	0.12	0.13	5.38	7.66
OHIO	9.514	8.873	0.17	0.19	13.41	22.42
OKLAHOMA	2.568	12.787	0.22	0.25	8.85	13.74
OREGON	2.379	10.853	0.23	0.26	9.77	15.61
PENNSYLVANIA	7.909	10.602	0.22	0.24	12.46	19.29
RHODE ISLAND	671	10.045	0.14	0.15	10.42	12.89
SOUTH CAROLINA	2.469	13.277	0.36	0.40	12.54	20.21
SOUTH DAKOTA	705	9.509	0.19	0.22	6.53	9.68
TENNESSEE 1/	4.316	10.574	0.23	0.25	10.84	16.72
TEXAS	12.565	12.695	0.23	0.27	12.21	19.34
UTAH	1.175	11.843	0.23	0.26	14.21	19.56
VERMONT	462	12.478	0.24	0.25	10.68	16.04
VIRGINIA	4.860	12.209	0.19	0.21	11.05	16.34
WASHINGTON	4.090	10.570	0.17	0.19	12.88	18.09
WEST VIRGINIA	1.214	12.306	0.33	0.39	12.68	23.36
WISCONSIN	3.471	12.413	0.21	0.24	12.29	17.89
WYOMING	487	11.807	0.23	0.26	6.89	10.75
U.S. TOTAL	187.260	11.252	0.22	0.24	12.73	19.46

1/ ESTIMATES OF NONFATAL INJURY ACCIDENTS AND NONFATALLY INJURED PERSONS WERE MADE BY FHWA BASED ON STATE REPORTED 1988 DATA.





#### **SECTION IV - PUERTO RICO AND U.S. TERRITORIES**

Travel and accident data reported by Puerto Rico and the U.S. Territories for calendar year 1989 are not yet available.



## SECTION V - RELATIONSHIP OF FATALITY RATES TO TRAVEL DENSITY

The vehicle mile fatality rate is the measure most commonly used for comparing the safety of different highway systems or the safety of highways in different States. A State often judges its own performance by comparing its fatality rates with the national fatality rate. The primary reason for differences in fatality rates appears to be variation in travel density over which the States have little control. Because the travel density varies widely among the States, it should not be expected that all States will have similar fatality rates. There are many reasons other than variation in travel density for differences among the fatality rates of the States. It is difficult to quantify these reasons well enough to develop reliable definitions of relationships between fatality rates and specific features.

The general characteristics of the relationship between fatality rates and travel density were described in Section I. Curves illustrating provisional rate-density relationships have been derived from reported data for the 4-year period from 1985 through 1988. The relationships must be regarded as provisional because they are based on data which are incomplete and known to contain errors. Despite their flaws, the curves provide a more suitable base than the national fatality rate for evaluating State rates. A curve describing the provisional rate-density relationship for all highways in the States is shown in Figure 7-A1.

In comparing State fatality rates a second consideration should be taken into account. Even if the risk (probability) of traffic fatalities were dependent only on travel density, rates would vary at random from those on the rate-density curve. Accidents and related rates are "random" in a statistical sense. Any attempt to drive a vehicle a given distance may or may not result in an accident. There is, nonetheless, a degree of statistical regularity which permits reasonably reliable estimation of the number of accidents expected from a large number of attempts. To speak of accidents as random events is not to say that accidents are unrelated to driving hazards or driver skill. The random variation of fatality rates is larger when the volume of traffic is small. For example, a random variation of 10 percent would be much more likely to occur in the Delaware fatality rate than in fatality rates for California or New York.

The random variation of fatality rates is somewhat analogous to the random variation observed when flipping a coin repeatedly. If the probability of "heads" is 1 in 2, the ratio of the number of heads to the number of flips approaches  $1/2$  as the number of flips increases. Similarly, if the probability that a fatality will result from an attempt to drive one vehicle mile is 3 in 100 million, the ratio of fatalities to vehicle miles will approach  $3/(100 \text{ million})$  as the number of vehicle miles increases. While the number of vehicle miles or flips of a coin is increasing, ratios vary at random. The amount of variation can be computed by applying the binomial probability law for the appropriate number of vehicle miles or flips. Approximations of the binomial law are commonly used to simplify computation.

The application of the binomial probability law to accident rates yields results that approximate observed experience. This procedure is widely used by the States to



identify hazardous sections of highway. It does not give precise results primarily because the probability of a fatality (or other event of interest) is not the same for every attempt that is made to drive a vehicle mile without an accident.

The rate-density curve in Figure 7-A1 is an exponential curve fitted to the data points by a weighted least squares procedure. Each data point is defined by a State fatality rate and travel density for the 4-year period. The point is weighted in proportion to the vehicle miles of travel in the State during those 4 years.

Because the volume of travel is different for each State, the magnitude of random variation is also different. To illustrate the effect of the differences, provisional ranges have been computed (Figure 7-A2). For each State, the observed 1989 fatality rate is shown along with a provisional range centered upon a value taken from the rate density curve in Figure 7-A1. If variations from rates on the rate-density curve in Figure 7-A1 followed a binomial distribution, the probability would be 99 out of 100 that each observed rate would fall within the provisional range shown in Figure 7-A2. Conversely, the chances would be only 1 in 100 that an observed rate would fall outside the provisional range if the risk were the same in 1989 as in the preceding 4 years and variation from the rate-density curve were random. If a rate falls above or below the range shown, it is likely that it is unusually high or low for some reason other than random variation. Figure 7-A2 shows that most State fatality rates varied significantly from the provisional rate-density curve. The 1989 fatality rates were about the same for California and Indiana. Yet, Indiana's rate was substantially lower than State rates observed for a similar travel density in the preceding 4-year period. California's rate, on the other hand, is within the provisional range, where deviation from the rate-density curve is less significant. Analysis of the possible reasons for the low rate in Indiana and the rates outside provisional ranges in many other States is beyond the scope of this report. In Figure 7-A2, States are arranged in order of travel density to facilitate comparison of States with similar travel densities; the State with the most vehicle miles per mile of highway (i.e., the highest average daily traffic) is at the top.

Figures 7-B1, 7-B2a, and 7-B2b, show the rural and urban fatality rates for each State separately and in the same manner as the information in Figures 7-A1 and 7-A2.

Other provisional range relationships, as well as provisional rate changes and observed fatality rates for the highway systems in each State, are shown in Figures 7-C1a through 7-F2b. Provisional range relationships are shown for the Interstate urban and rural systems separately.

For every system, most fatality rates observed in 1989 were rarely above the provisional range based on 1985 through 1988 experience (Figure 7).

## USING RATE-DENSITY RELATIONSHIPS

Rate-density curves may be regarded as sets of provisional national norms for fatality rates. Figure 7-A1 on page 56 shows the rate-density curve for all roads in the United States.

For a particular State, the value of the provisional national norm depends on the daily number of vehicle miles per mile of highway--or average daily traffic (ADT) in that State. For a State with a daily average of 2,000 vehicle miles of travel per mile of highway, Figure 7-A1 indicates that a normal fatality rate would be slightly under 2.5 fatalities per 100 million vehicle miles.

Some random deviation of State rates from provisional national norms is expected. Most of this random deviation would fall within provisional ranges such as those shown in Figure 7-A2 on page 57. Differences in the width of provisional ranges reflect differences in volumes of travel; ranges are widest in the States with the least travel. When State rates fall above or below the provisional ranges, the deviation from the provisional national norm is likely to be caused by something other than random variation. Possible causes include effective safety programs, hazardous highways, inconsistent data, and many other contributing factors.

Figure 7 may be used to answer questions such as:

**1. Where are successful safety programs most likely found?**

Those States where the 1989 fatality rate is to the left of the provisional range are most likely to have successful safety programs. See Figures 7-A2, 7-B2, etc.

**2. Are safety programs in a particular state more likely to have been successful on some systems than on others?**

Safety programs are more likely to have been successful on those highway systems where the 1989 fatality rate is to the left of the provisional range. See Figures 7-C2, 7-D2, etc.

**3. Where, in a particular State, is the greatest potential for improvement of safety programs likely to be found?**

The greatest potential for reduction of traffic deaths in a State is likely to be on those highway systems where the 1989 fatality rate is to the right of the provisional range. See Figures 7-C2, 7-D2, etc.

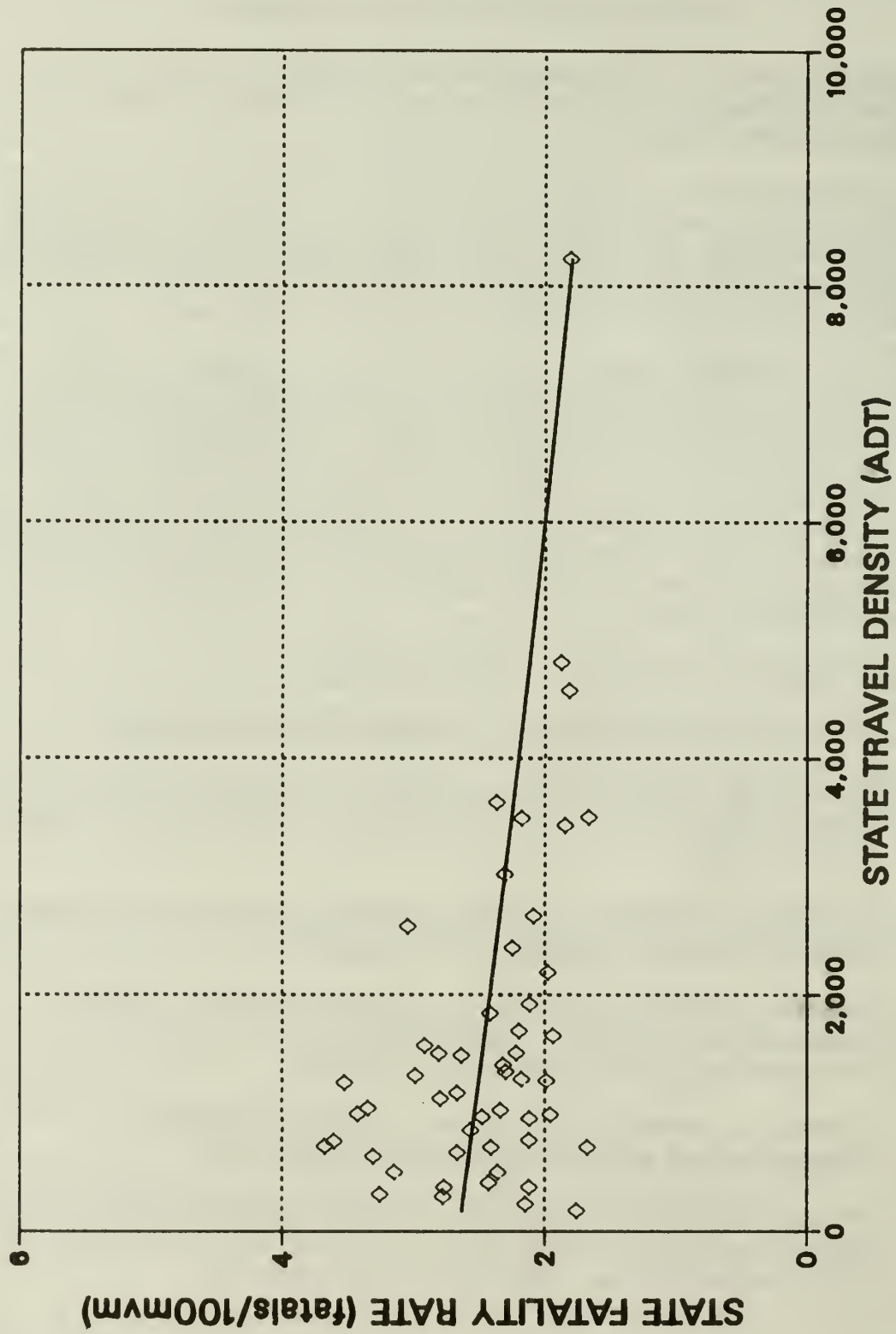


Fig. 7-A1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
ALL HIGHWAYS



# FATALITIES PER 100 MILLION VEHICLE MILES



Figure 7-A2 FATALITY RATE BY STATE - ALL HIGHWAYS (1989)

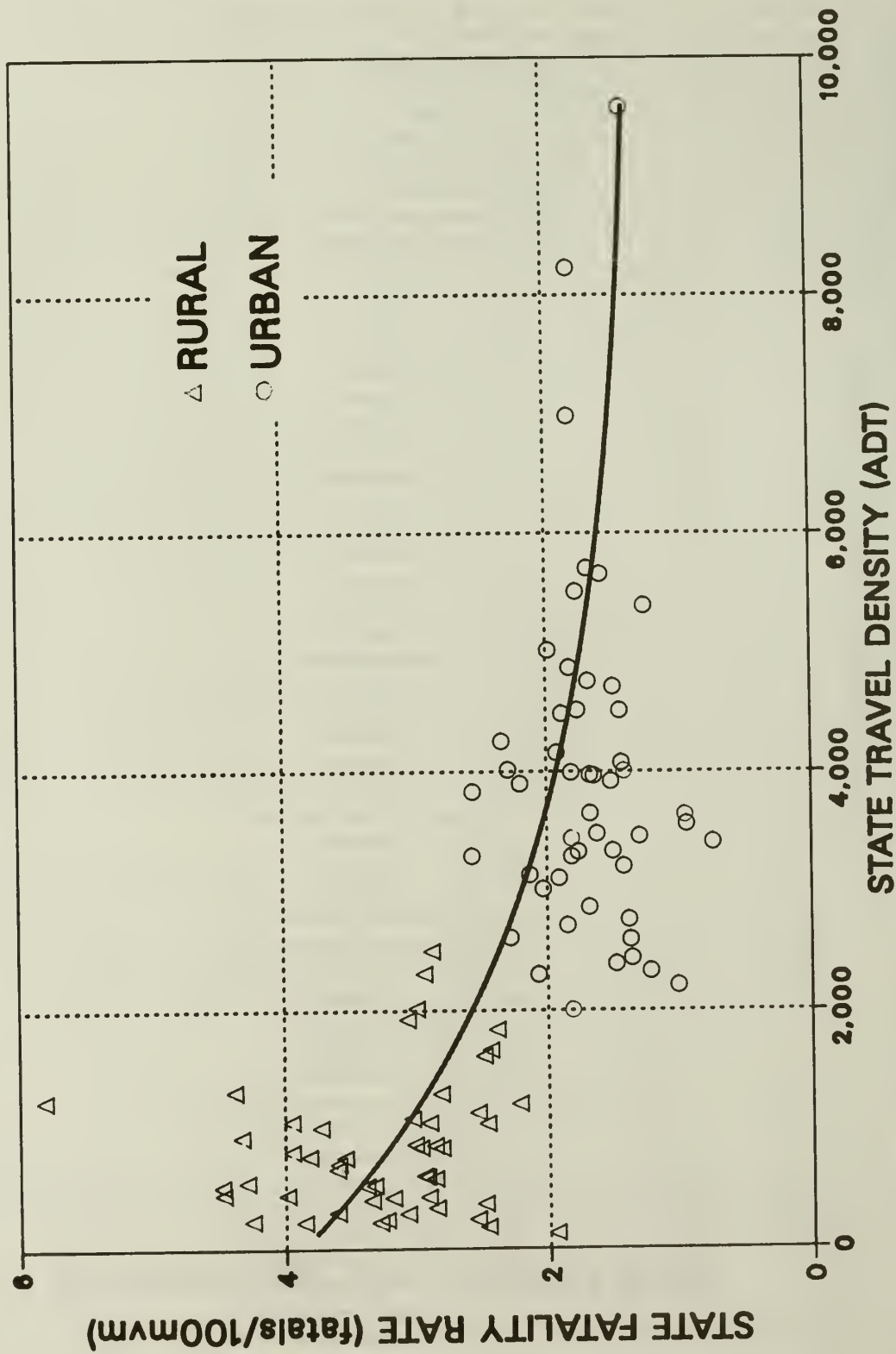


Fig. 7-B1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
RURAL AND URBAN HIGHWAYS



**Figure 7-B2a FATALITY RATE BY STATE - ALL RURAL HIGHWAYS (1989)**





Figure 7-B2b FATALITY RATE BY STATE - ALL URBAN HIGHWAYS (1989)

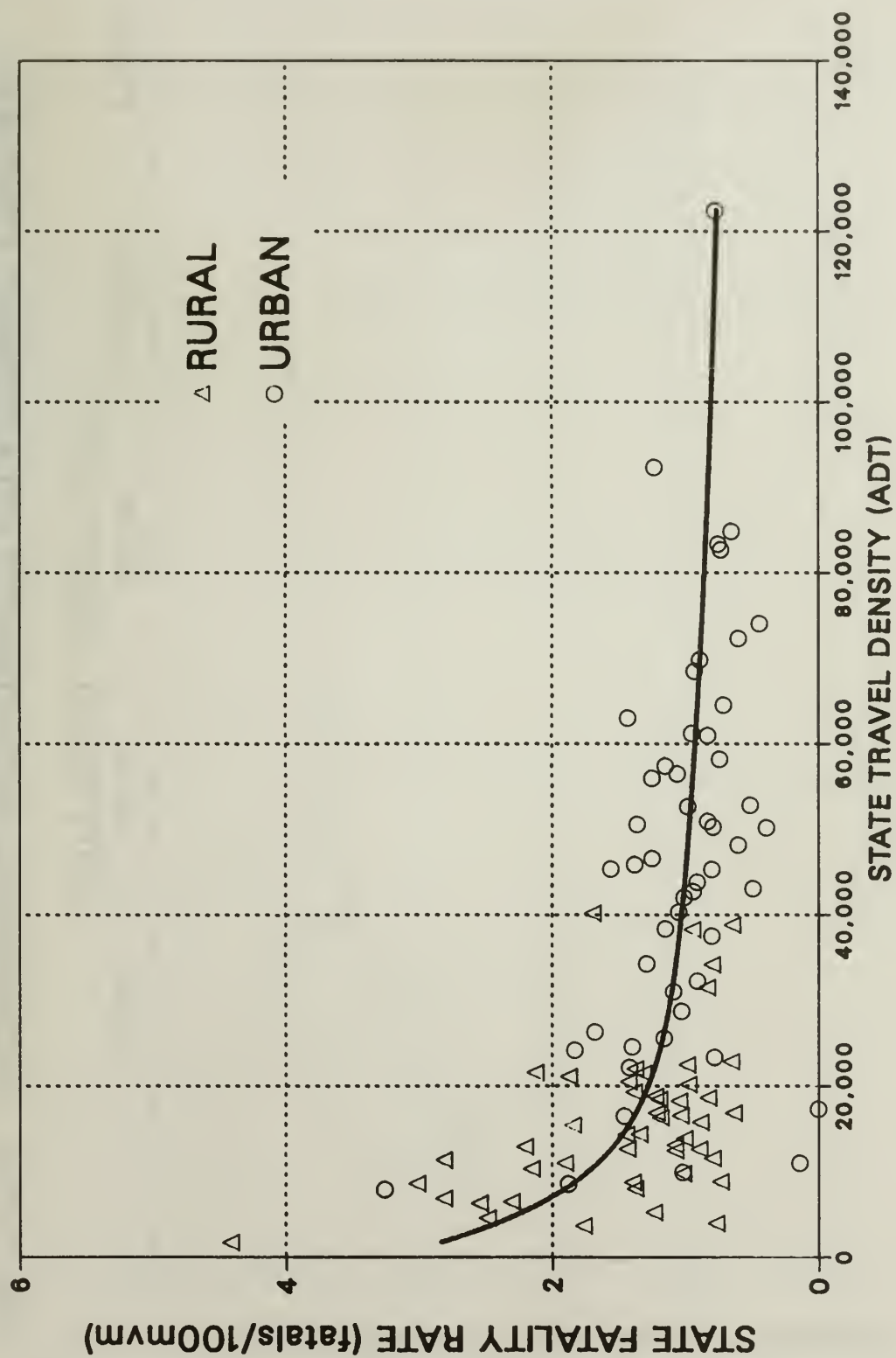


Fig. 7-C1a. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
INTERSTATE SYSTEM

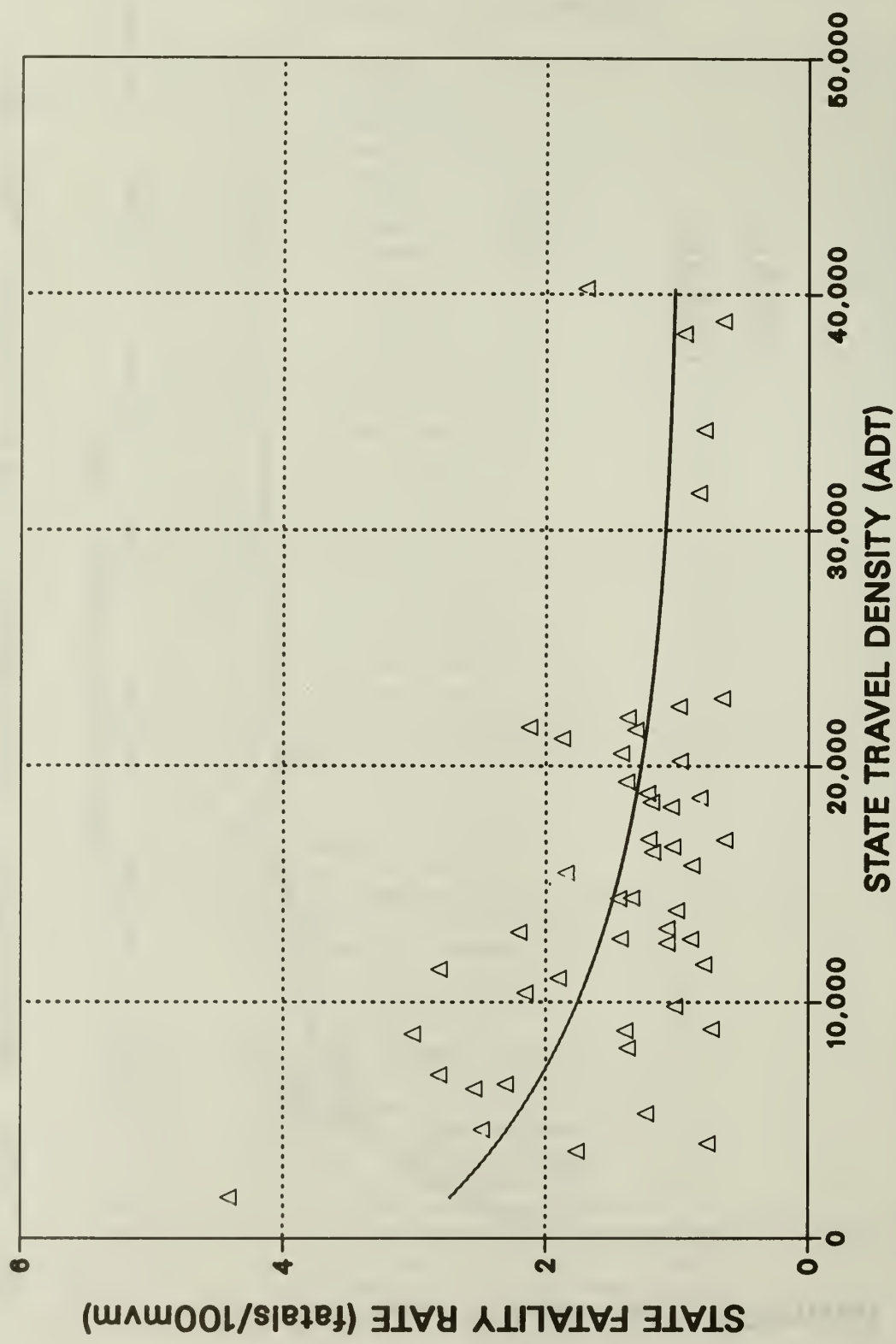


Fig. 7-C1b. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
RURAL INTERSTATE SYSTEM



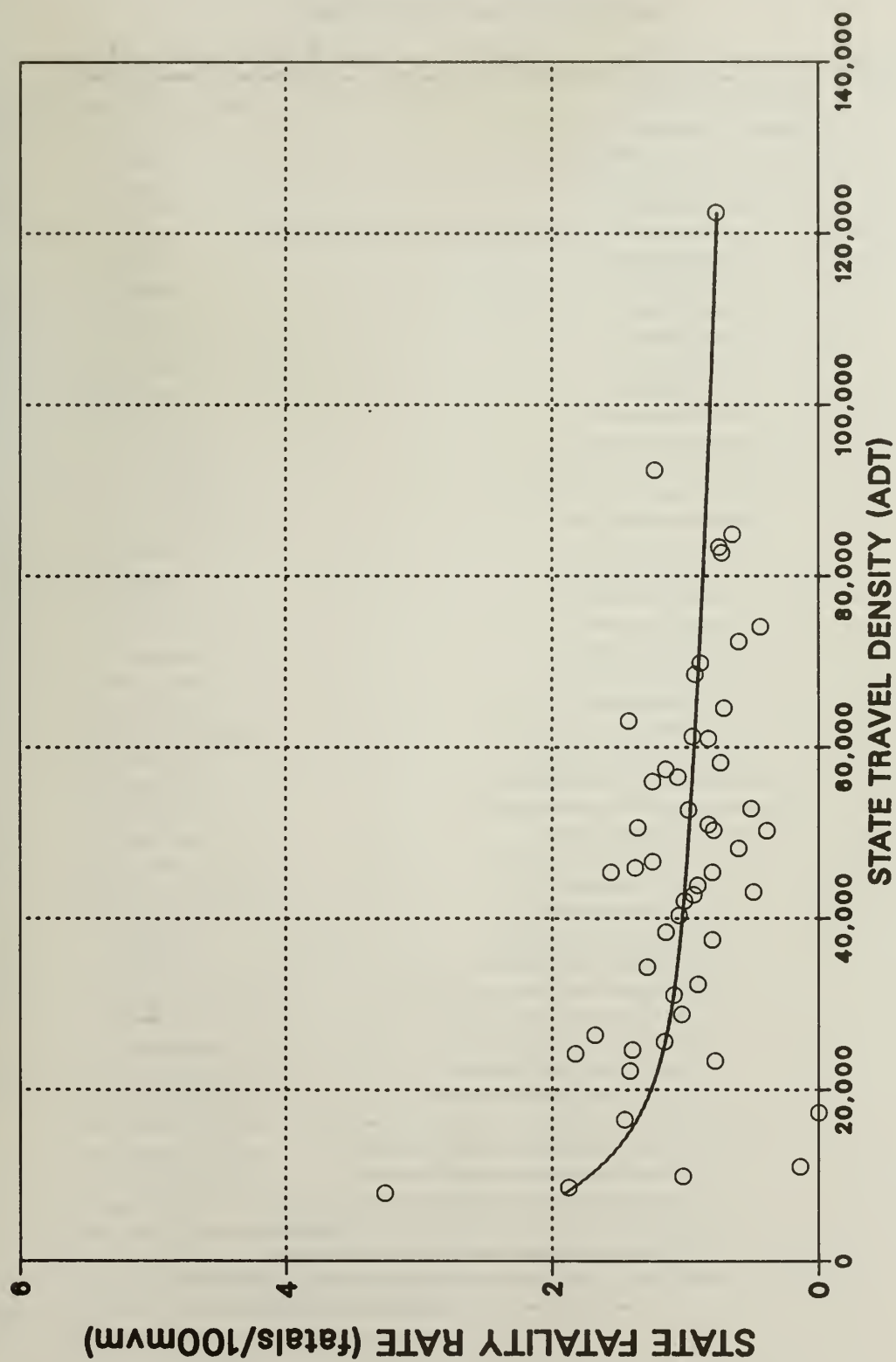


Fig. 7-C1c. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
URBAN INTERSTATE SYSTEM



Figure 7-C2a FATALITY RATE BY STATE - RURAL INTERSTATE HIGHWAYS (1989)

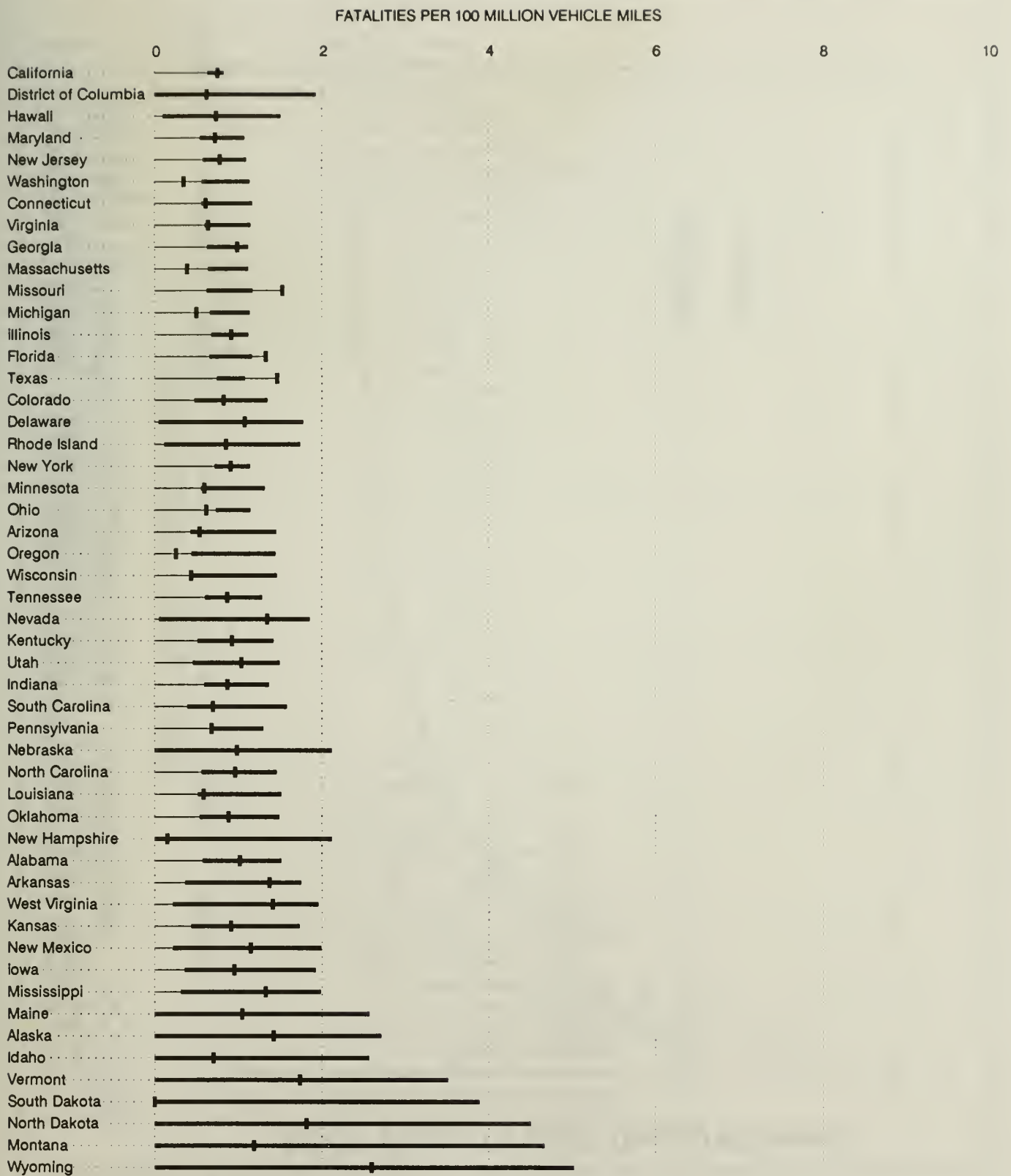


Figure 7-C2b FATALITY RATE BY STATE - URBAN INTERSTATE HIGHWAYS (1989)



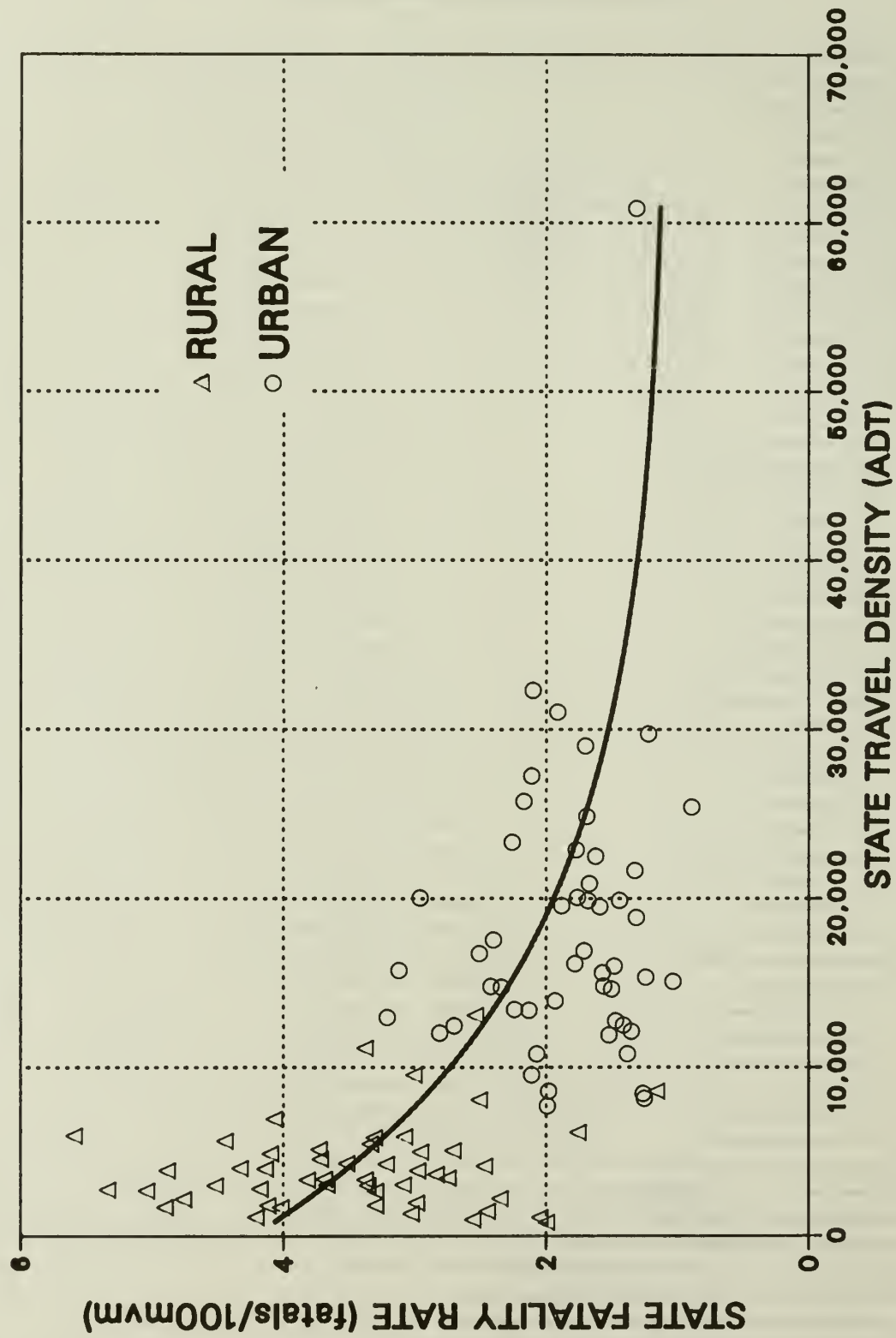


Fig. 7-D1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
OTHER FEDERAL-AID PRIMARY HIGHWAYS



Figure 7-D2a FATALITY RATE BY STATE - OTHER RURAL FEDERAL-AID PRIMARY HIGHWAYS (1989)

# FATALITIES PER 100 MILLION VEHICLE MILES



Figure 7-D2b FATALITY RATE BY STATE - OTHER URBAN FEDERAL-AID PRIMARY HIGHWAYS (1989)



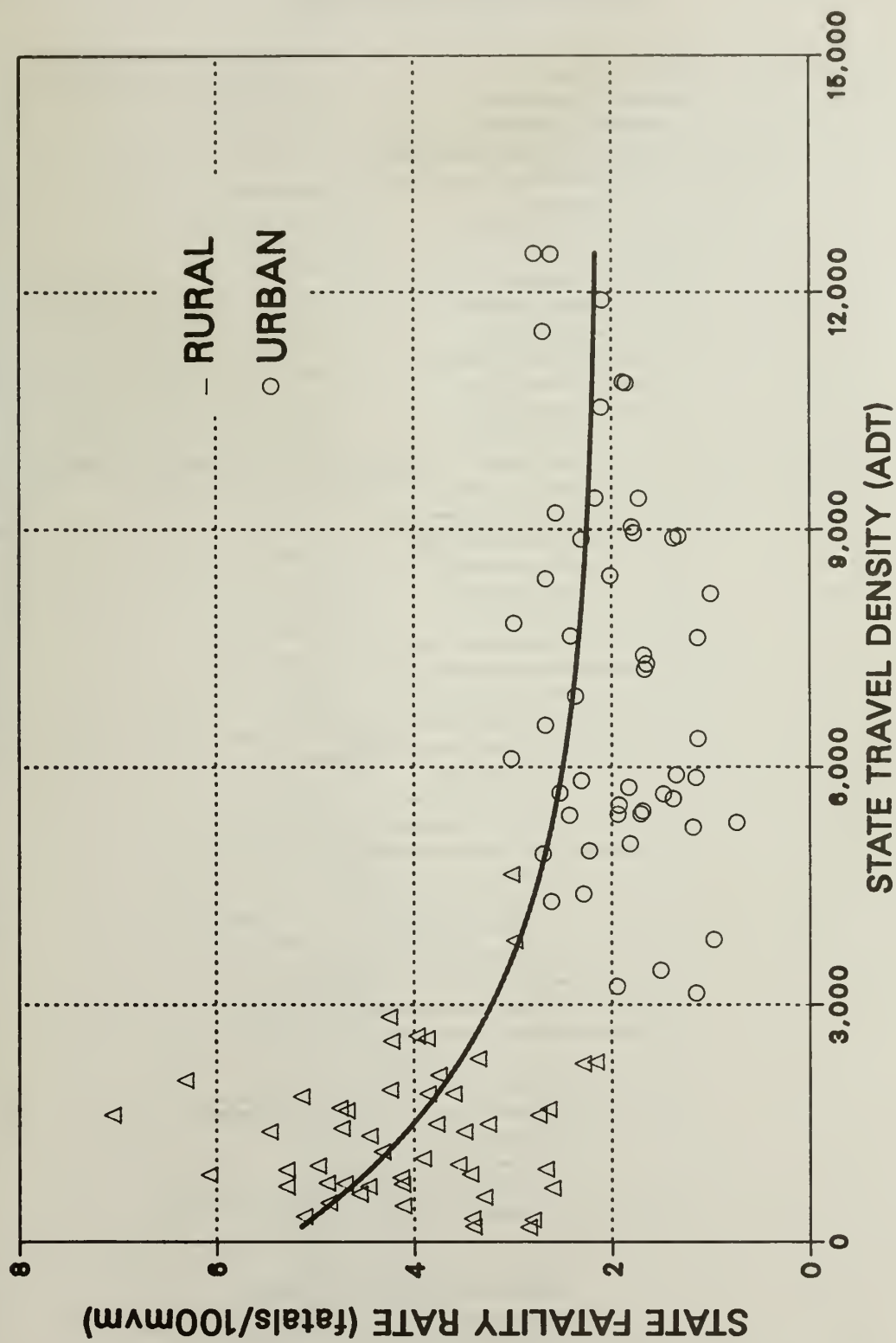


Fig. 7-E1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
FEDERAL-AID SECONDARY AND URBAN SYSTEMS

# FATALITIES PER 100 MILLION VEHICLE MILES

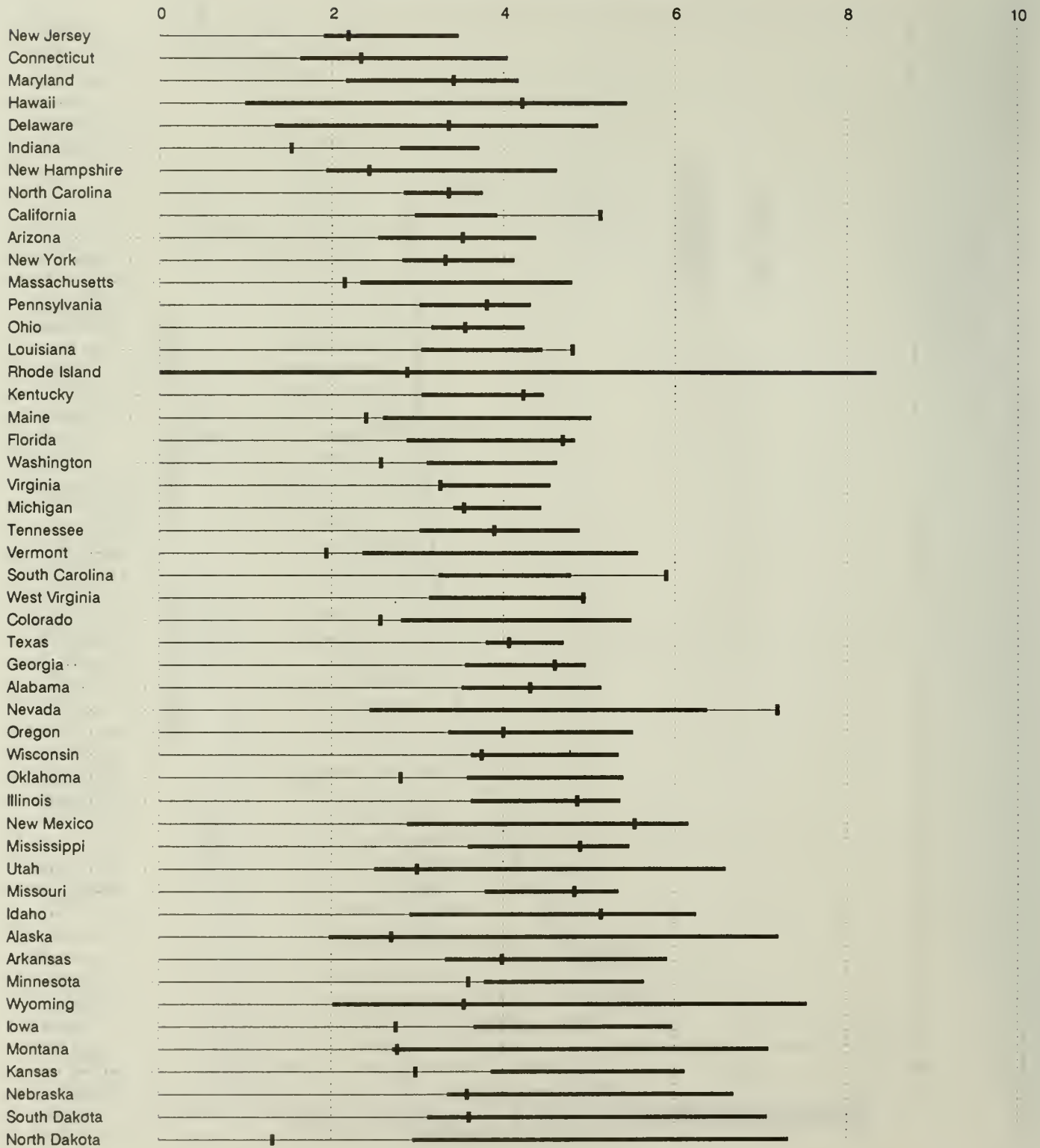
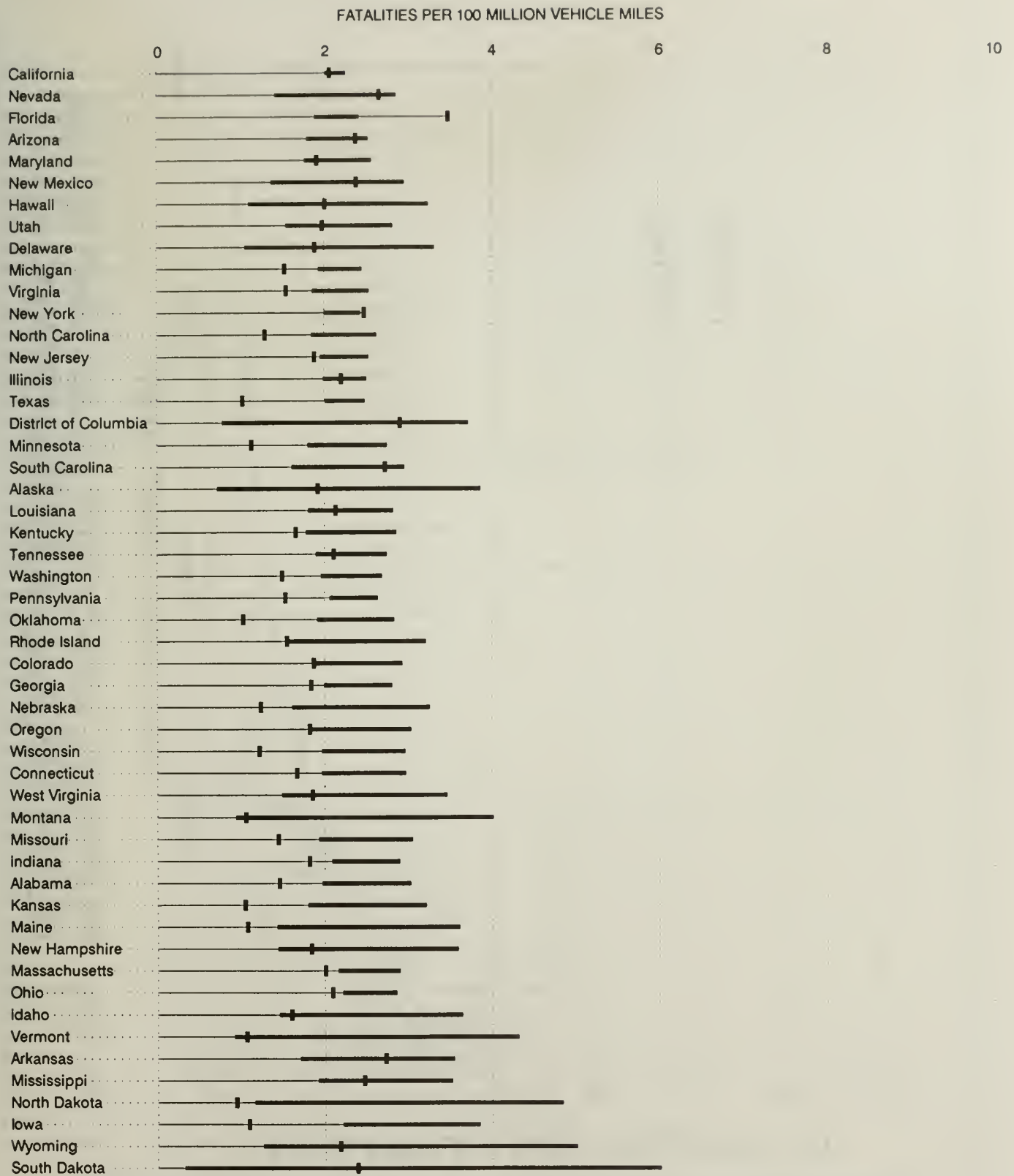


Figure 7-E2a FATALITY RATE BY STATE - FEDERAL-AID SECONDARY HIGHWAYS (1989)



**Figure 7-E2b FATALITY RATE BY STATE - FEDERAL-AID URBAN SYSTEM HIGHWAYS (1989)**



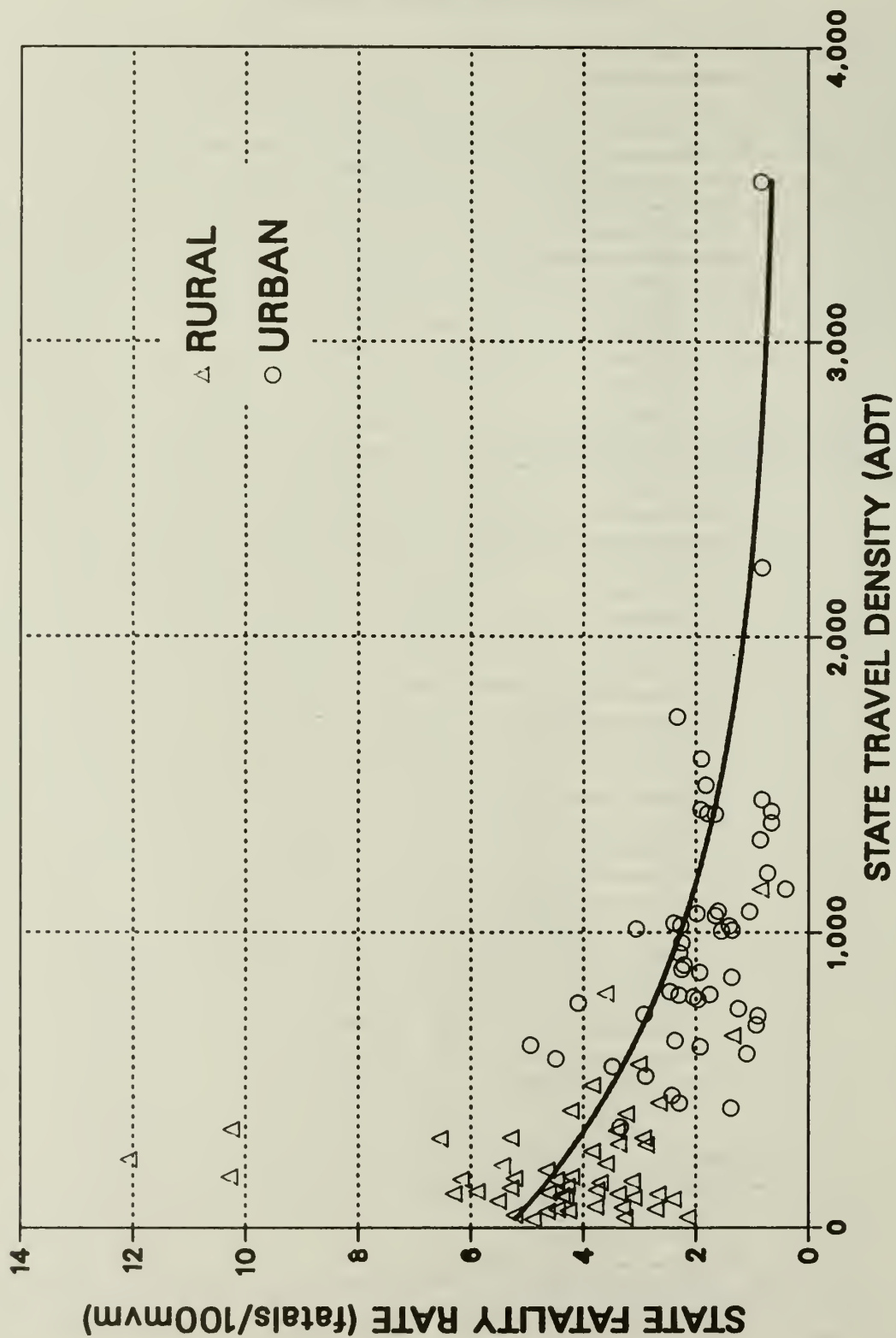


Fig. 7-F1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1985-88)  
NON-FEDERAL-AID HIGHWAYS

FATALITIES PER 100 MILLION VEHICLE MILES



Figure 7-F2a FATALITY RATE BY STATE - RURAL NON-FEDERAL-AID HIGHWAYS (1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

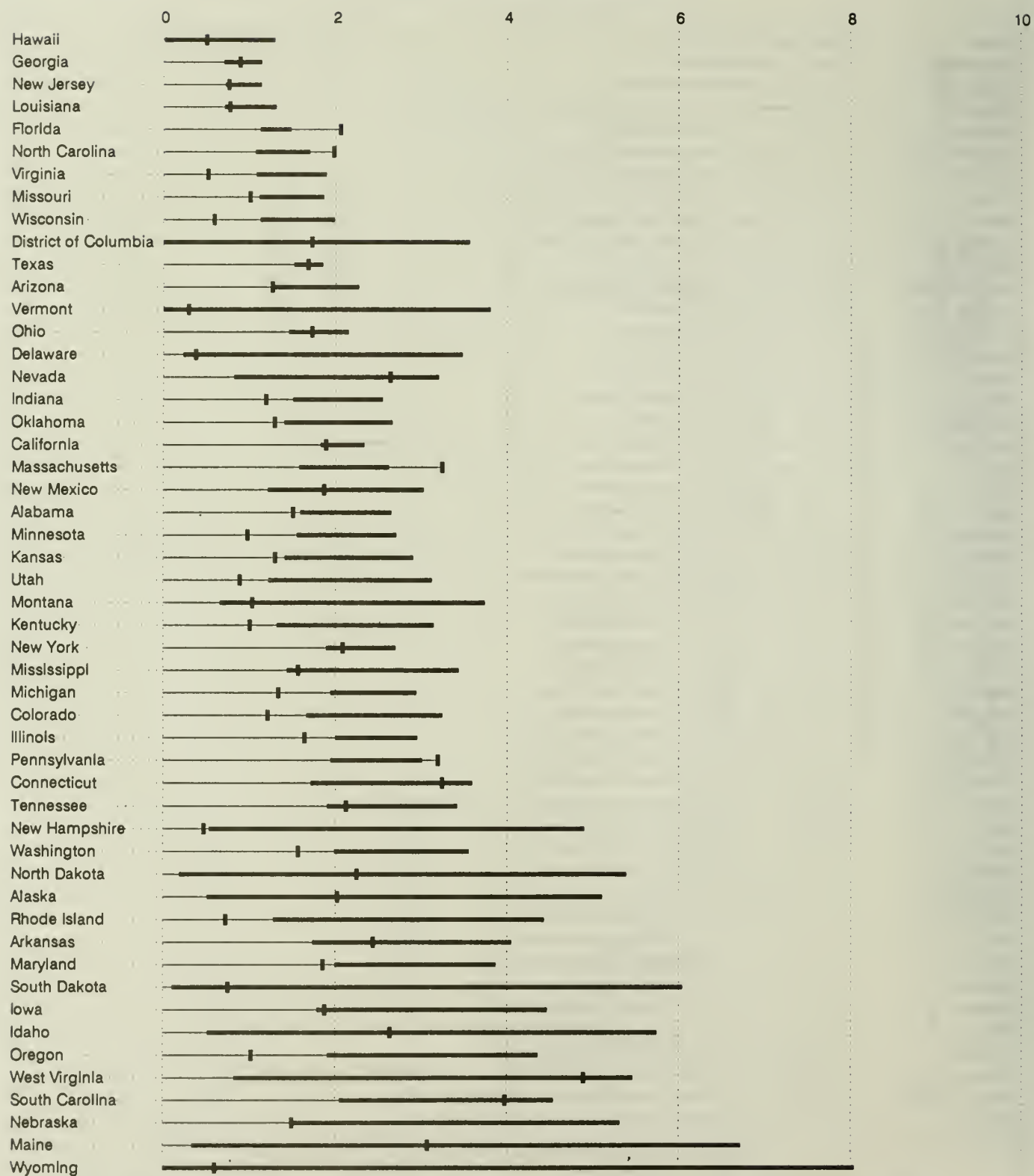


Figure 7-F2b FATALITY RATE BY STATE - URBAN NON-FEDERAL-AID HIGHWAYS (1989)



## SECTION VI - STATE FATALITY RATE TRENDS

It is sometimes more useful to know the trend within a State than to know how that State compares with others. Figure 8 illustrates changes in State rates over the 5-year period from 1985 through 1989. The provisional range for each of the 5 years is based on the provisional rate-density curve for the 4-year period preceding each year. This is a change from the way the provisional ranges were presented in this series of reports for Figure 8 since the 1982 report.

Figure 8 is designed to show, within each State, the pattern of observed rates over the 5-year period and the relationship of observed rates to provisional ranges. It is not intended that Figure 8 be used to compare the magnitude of fatality rates in different States.

While Kansas demonstrates decreasing fatality rates throughout the 5-year period, others report little improvement since 1985. In more than 80 percent of the States, the rate reported for 1989 is lower than the rates for the preceding year. There were seven States which had a 1989 fatality rate above the provisional range. By comparison, the lowest number occurred in 1985 when the number of States was five.

Figure 8 may be used to answer questions such as:

**1. Are the fatality rates in a State improving?**

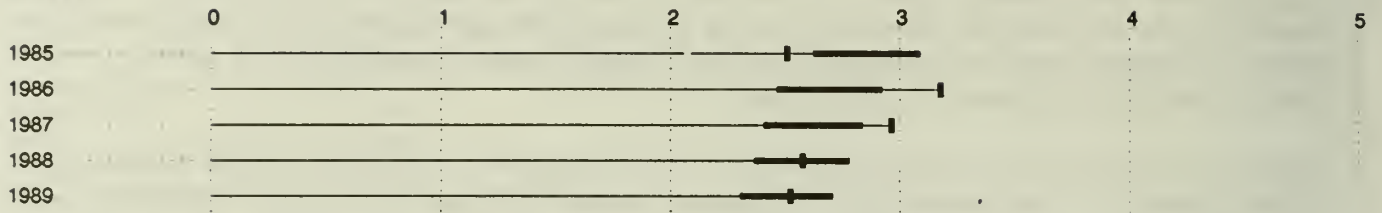
Most States show steadily improving fatality rates. A few do not. See pages 80-90.

**2. How have fatality rates in a particular State compared with those in the rest of the United States over the past five years?**

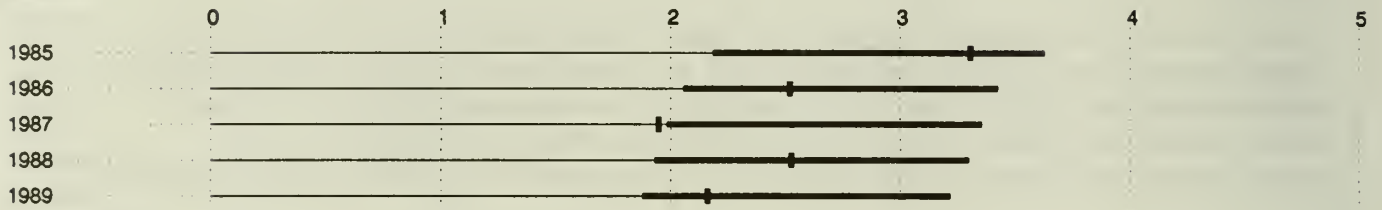
For any year in a selected State, a fatality rate to the left of the provisional range indicates that the State fatality rate is significantly below the 1985-1988 national experience for States with similar travel density. A fatality rate to the right of the provisional range is significantly above such national experience. See pages 80-90.

# FATALITIES PER 100 MILLION VEHICLE MILES

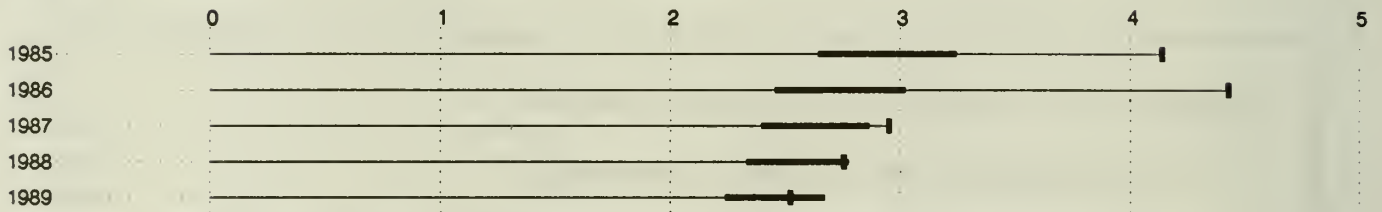
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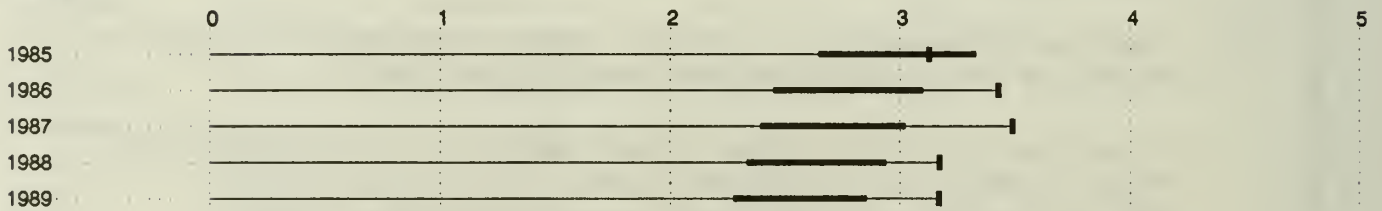
## Alaska



## Arizona



## Arkansas



## California

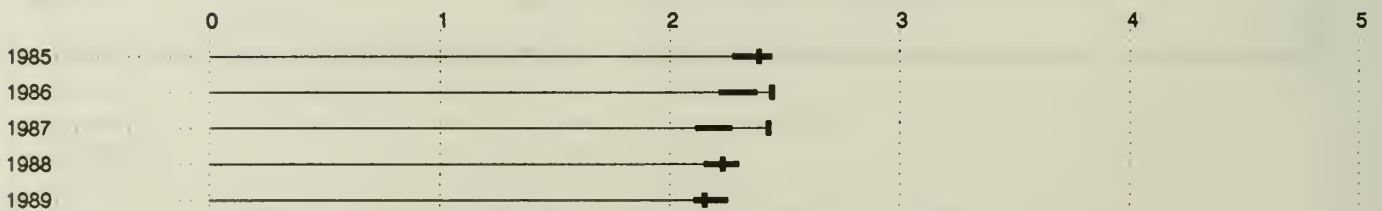


Figure 8 FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

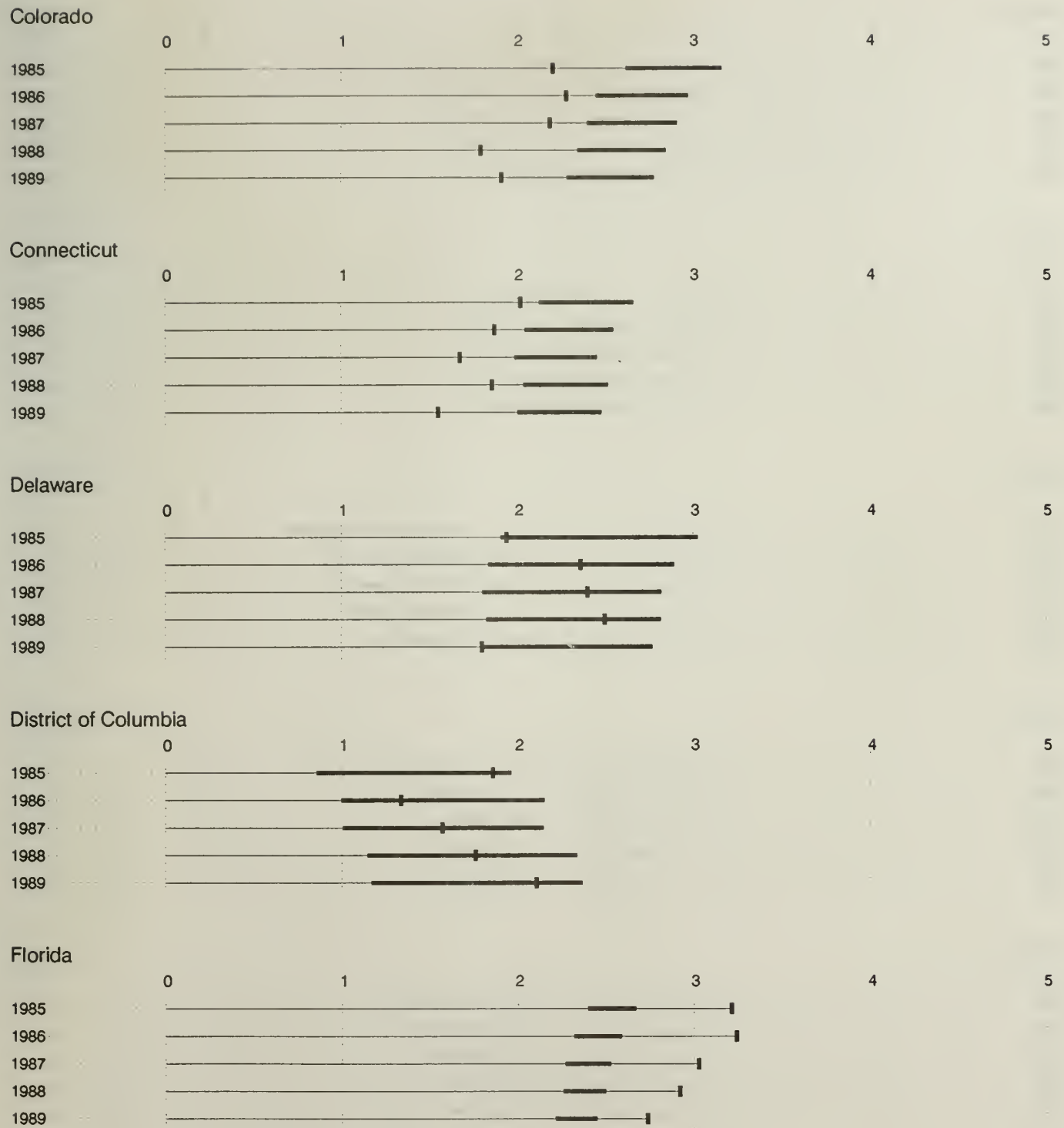
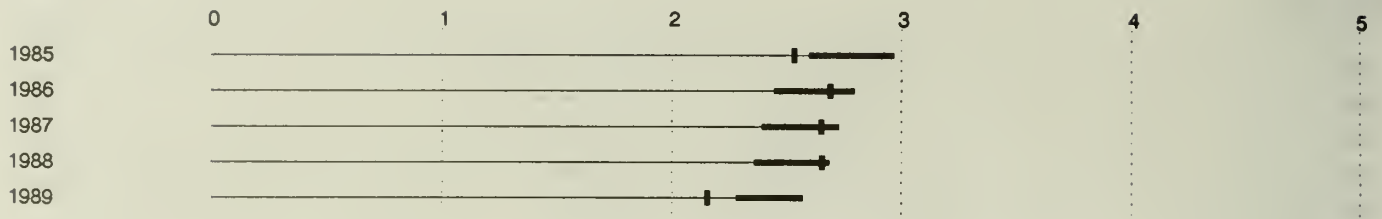


Figure 8 (continued) FATALITY RATES (1985 - 1989)

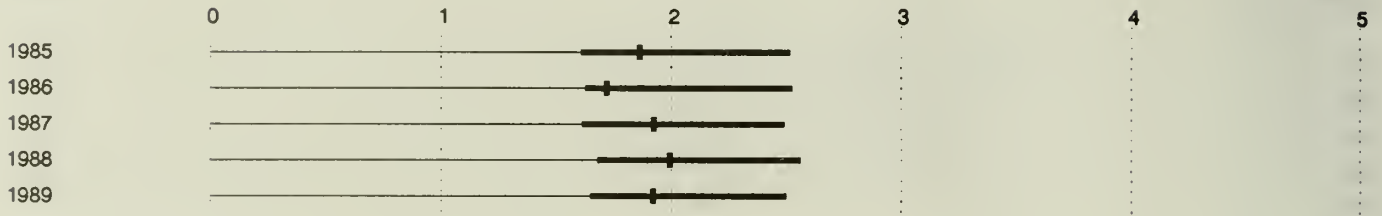


# FATALITIES PER 100 MILLION VEHICLE MILES

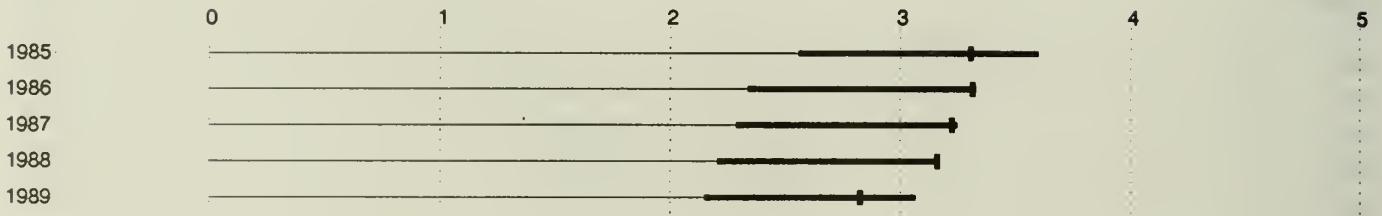
## Georgia



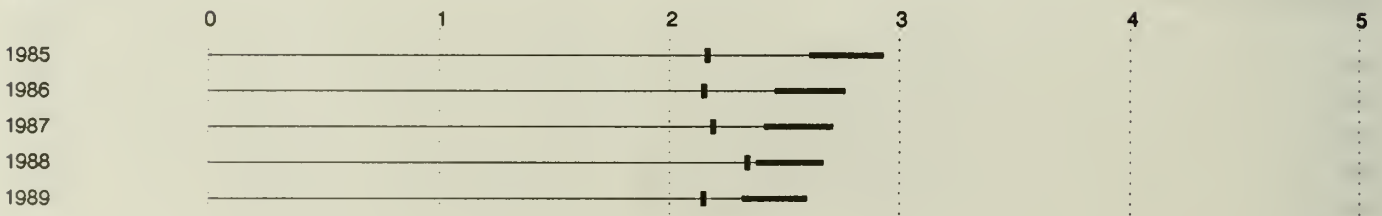
## Hawaii



## Idaho



## Illinois



## Indiana

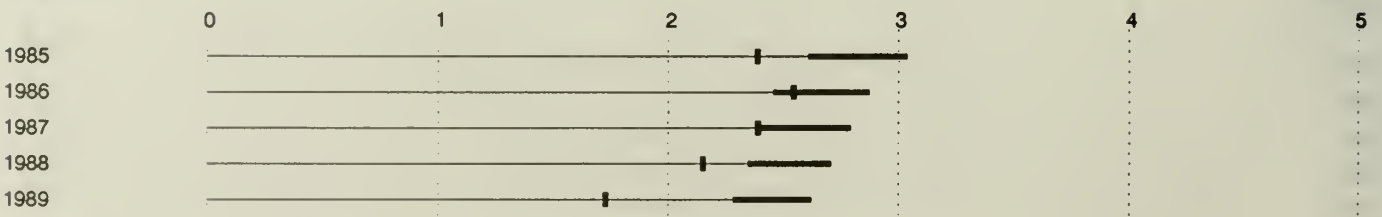
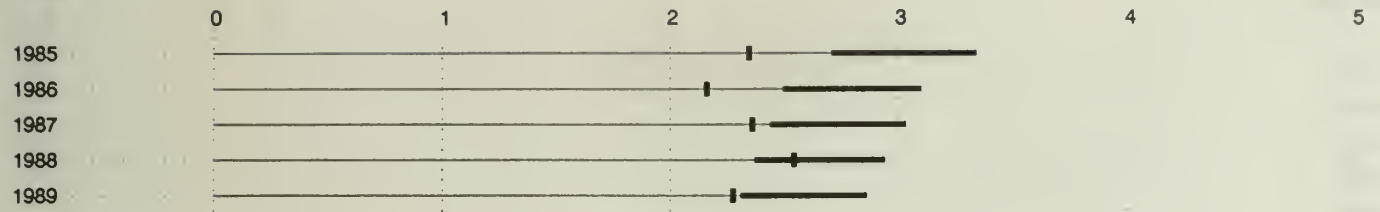


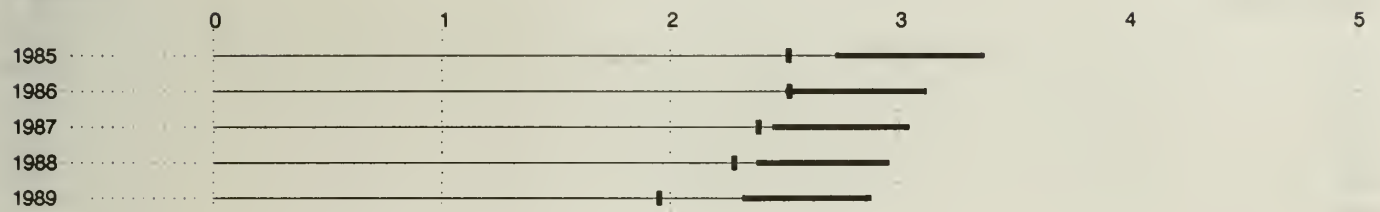
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

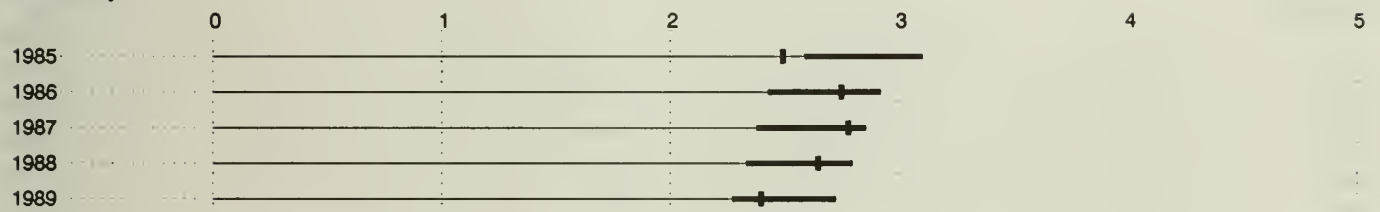
## Iowa



## Kansas



## Kentucky



## Louisiana



## Maine

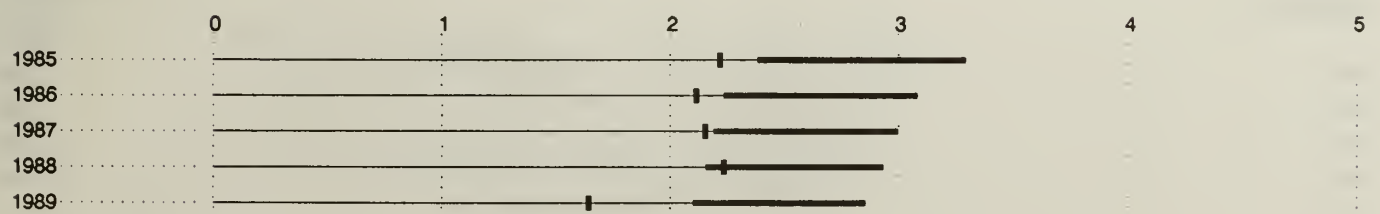
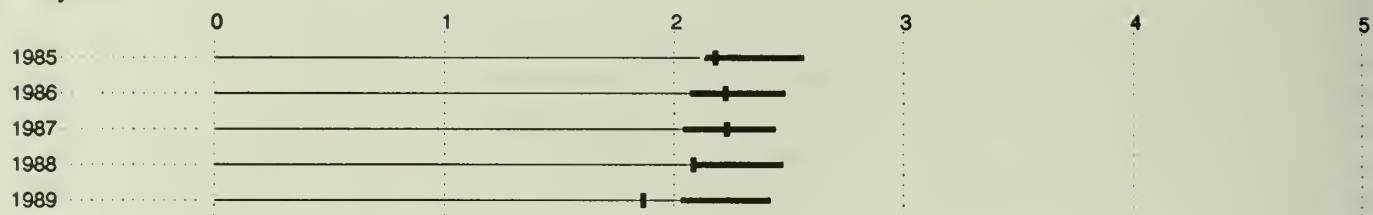


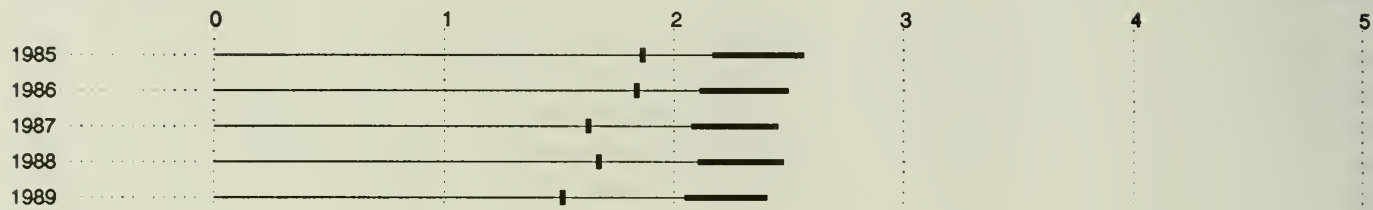
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

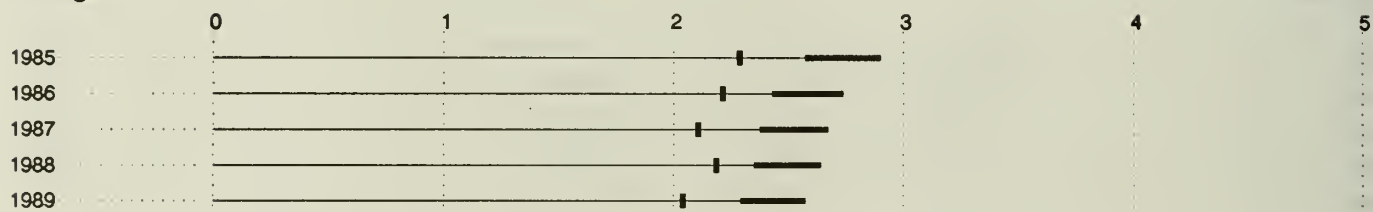
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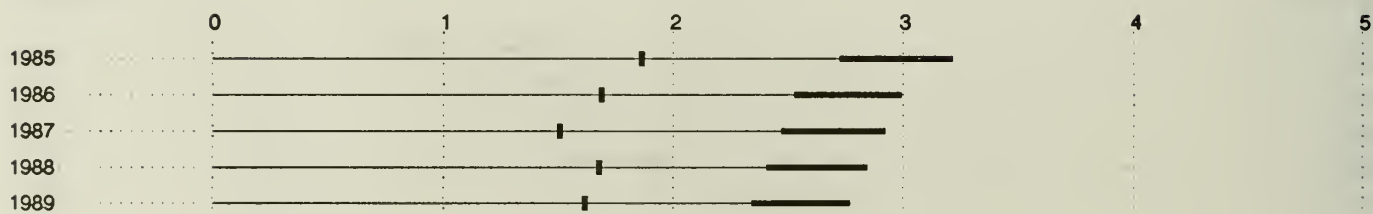
## Massachusetts



## Michigan



## Minnesota



## Mississippi

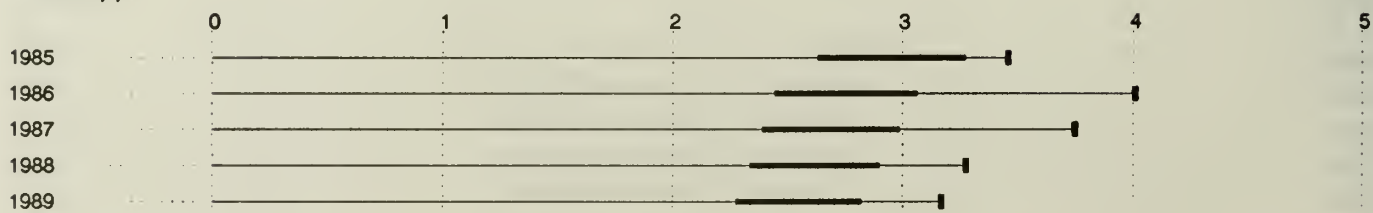
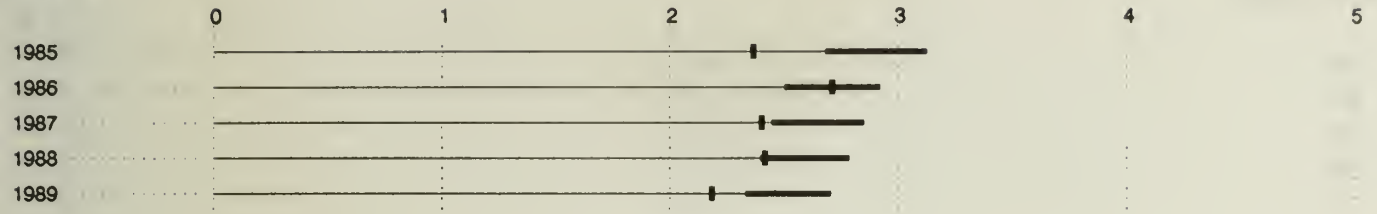


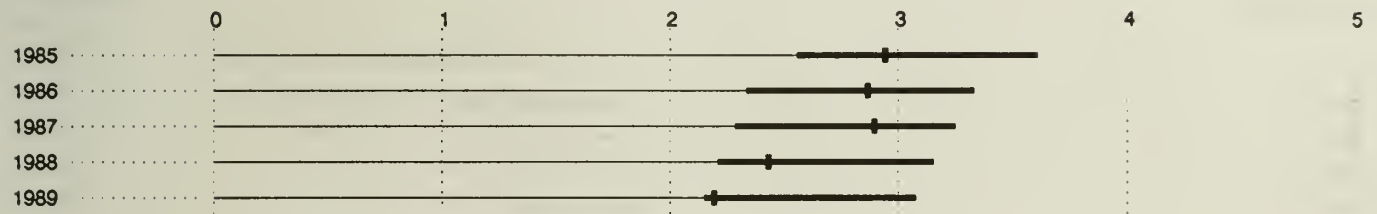
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

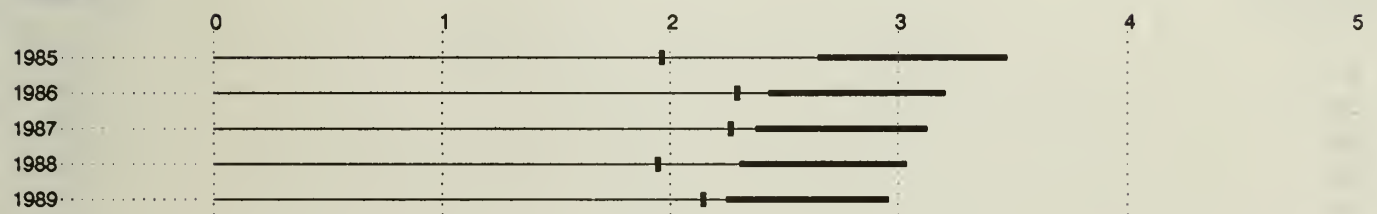
## Missouri



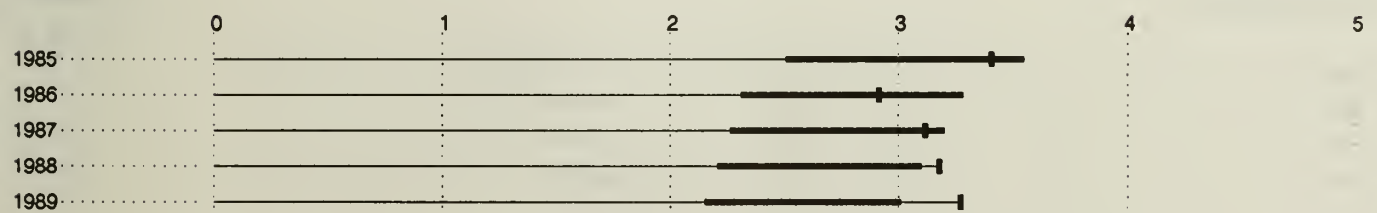
## Montana



## Nebraska



## Nevada



## New Hampshire

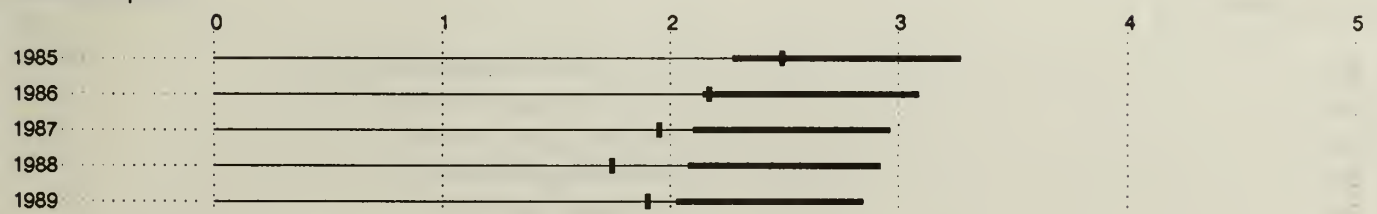
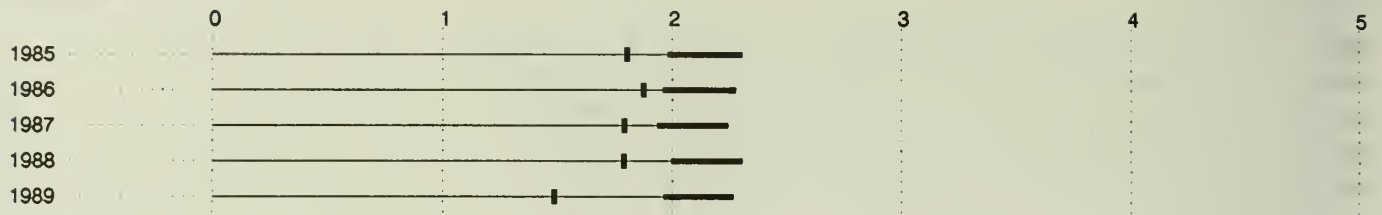


Figure 8 (continued) FATALITY RATES (1985 - 1989)

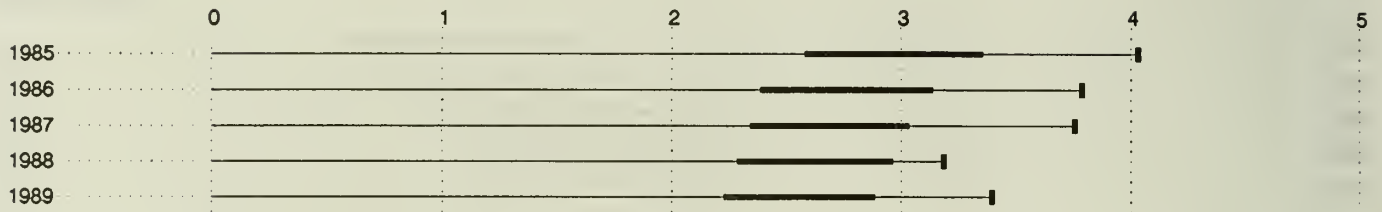


# FATALITIES PER 100 MILLION VEHICLE MILES

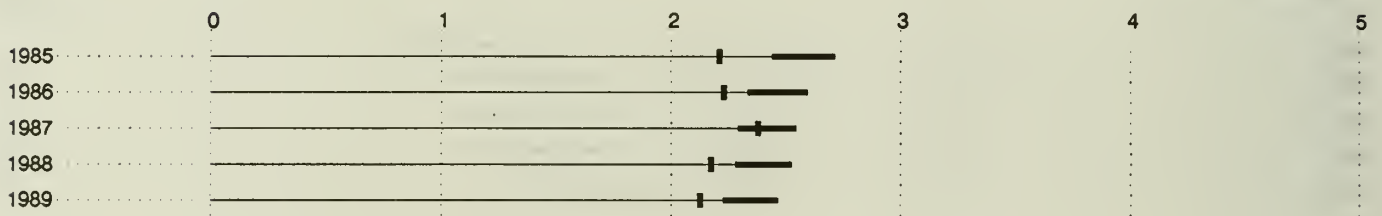
## New Jersey



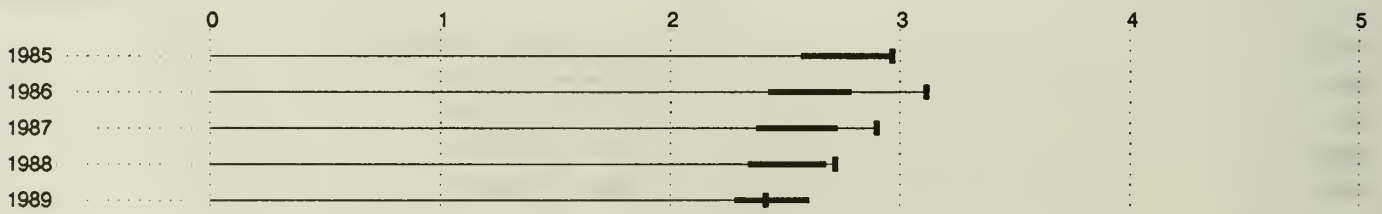
## New Mexico



## New York



## North Carolina



## North Dakota

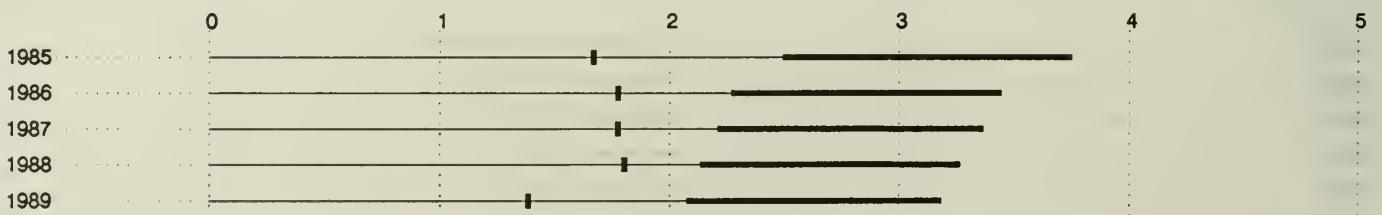
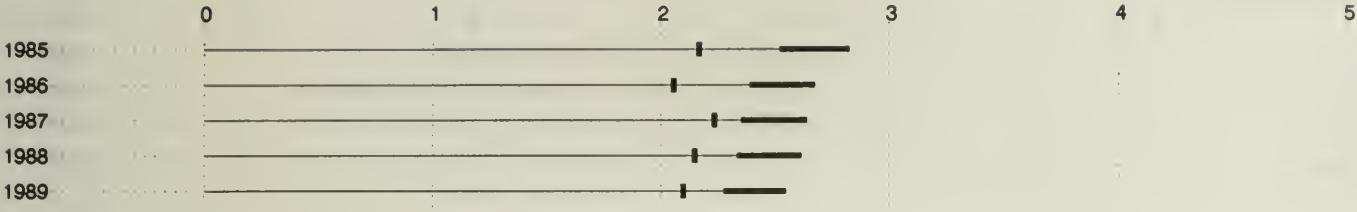


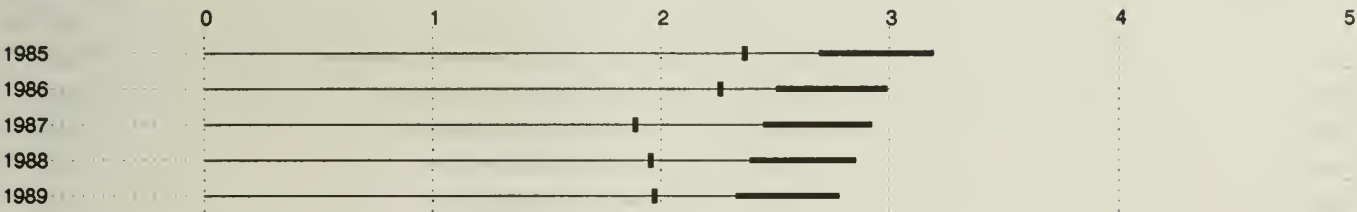
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

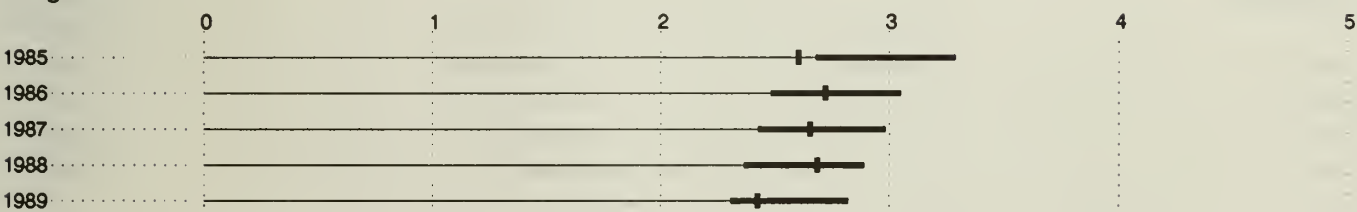
## Ohio



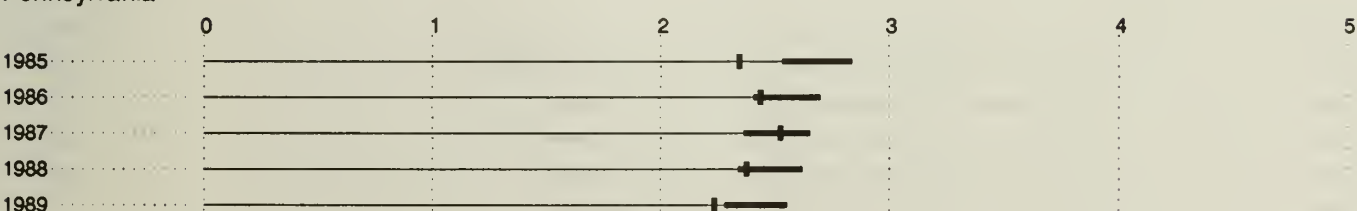
## Oklahoma



## Oregon



## Pennsylvania



## Rhode Island

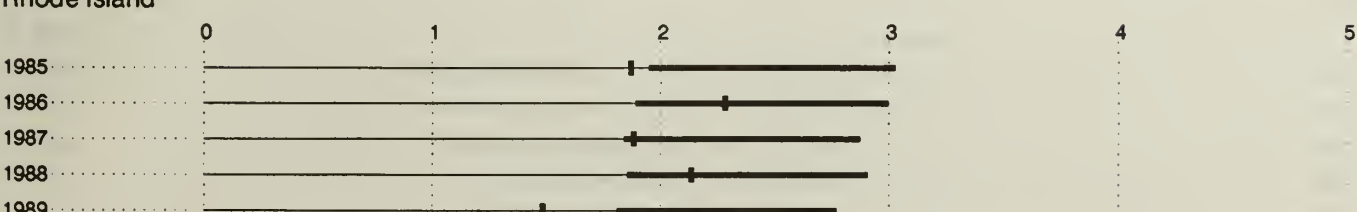
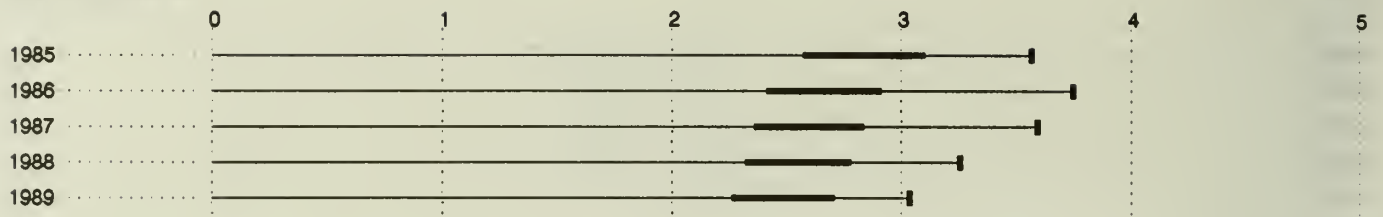


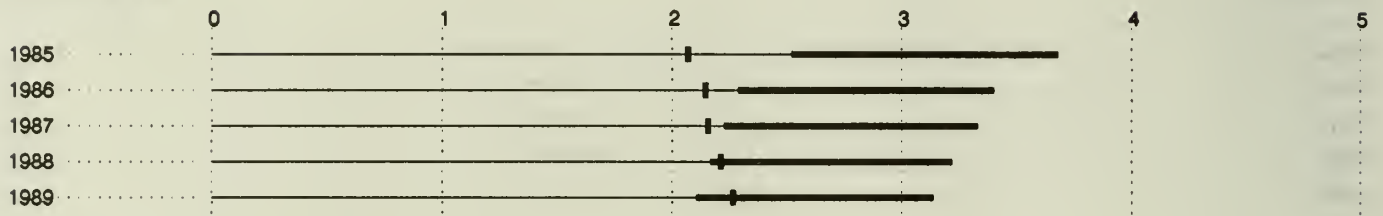
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

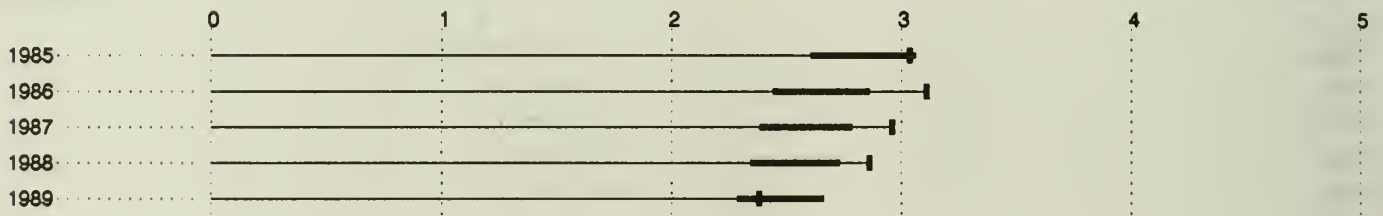
## South Carolina



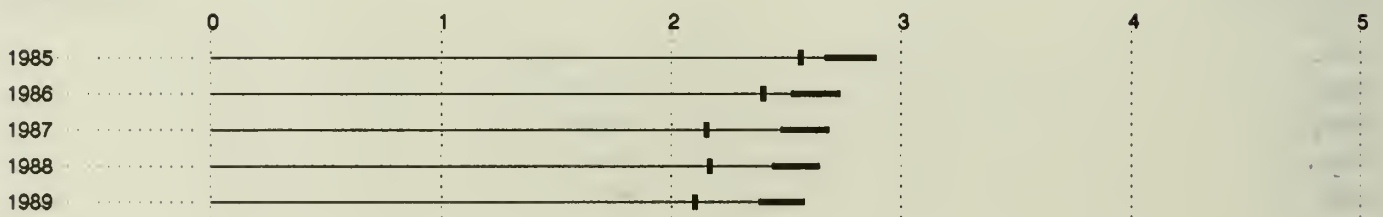
## South Dakota



## Tennessee



## Texas



## Utah

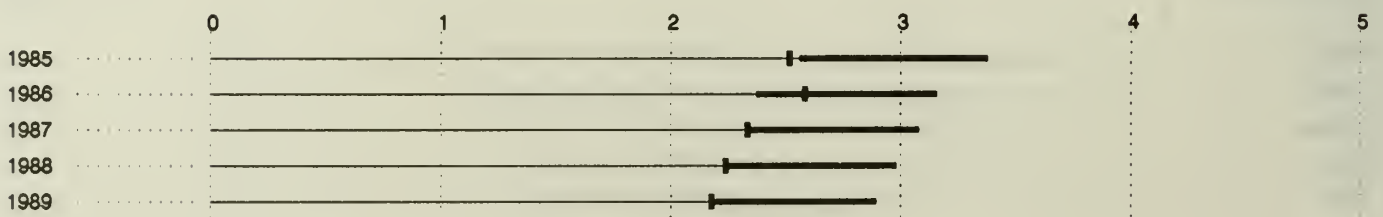
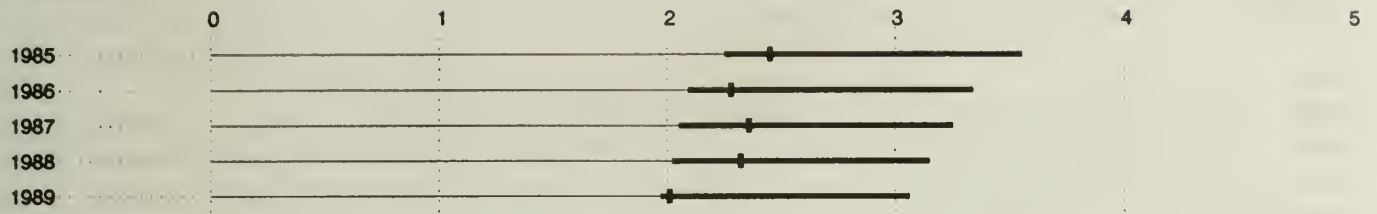


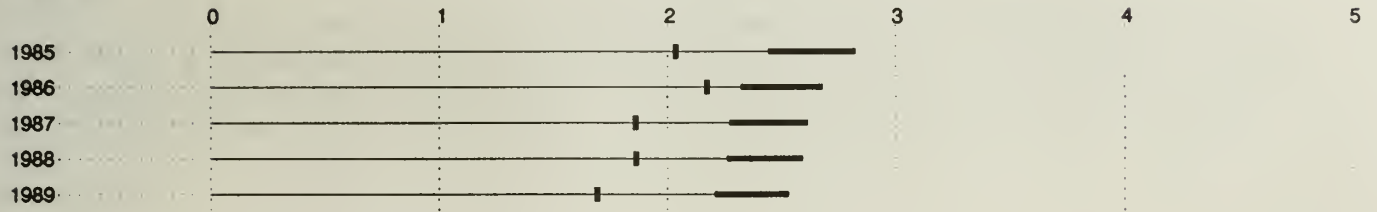
Figure 8 (continued) FATALITY RATES (1985 - 1989)

# FATALITIES PER 100 MILLION VEHICLE MILES

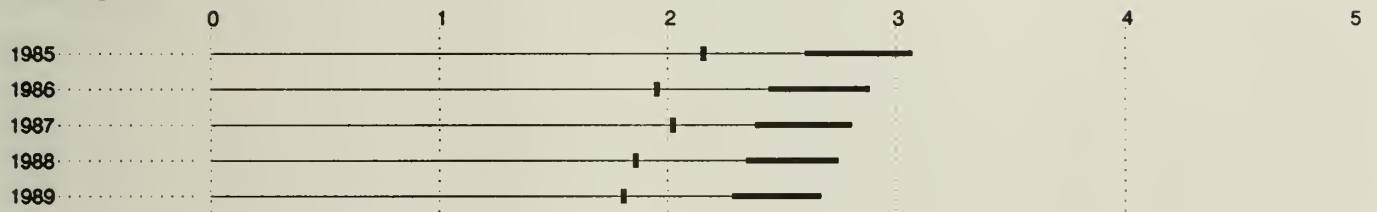
## Vermont



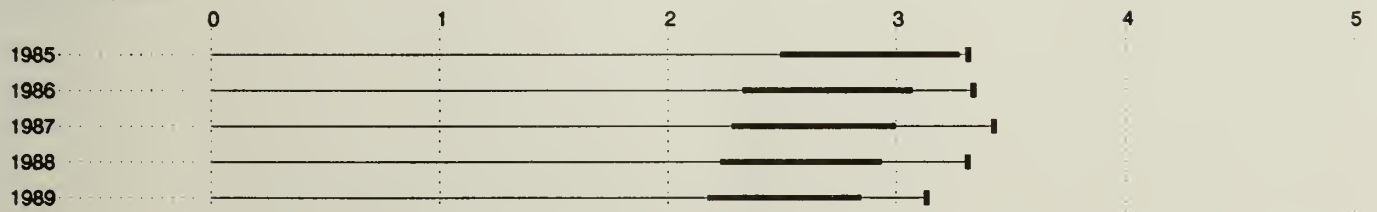
## Virginia



## Washington



## West Virginia



## Wisconsin

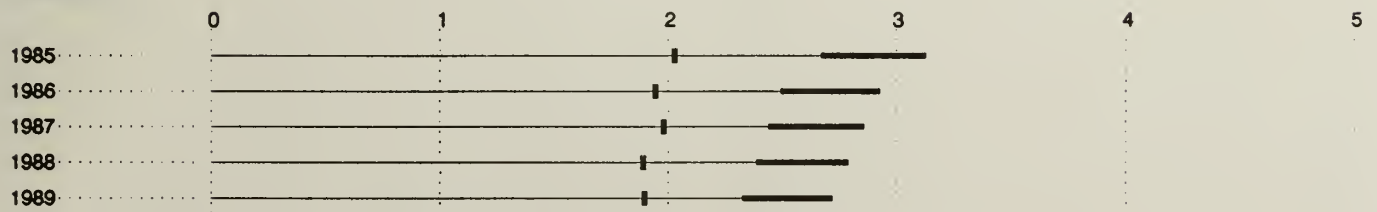


Figure 8 (continued) FATALITY RATES (1985 - 1989)



# FATALITIES PER 100 MILLION VEHICLE MILES

Wyoming

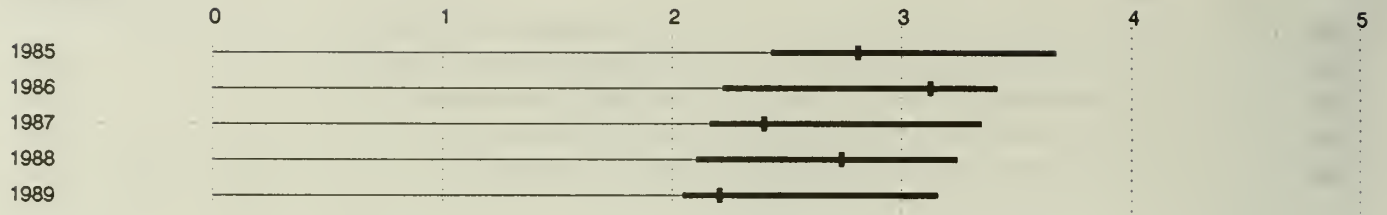


Figure 8 (continued) FATALITY RATES (1985 - 1989)

## **SECTION VII - SUMMARY**

This report presents data which can be used in the evaluation of the highway safety performance of the States. The data were submitted by the States through the Highway Performance Monitoring System operated by the Federal Highway Administration.

Table 1 contains travel and accident data by highway system for the United States. It is a summary of the detailed data contained in Tables 2 through 6. Estimates have been included where data reported by the States were incomplete. Only one State, Tennessee, was unable to submit any nonfatal injury accident data in time for inclusion in this report.

The traffic accident statistics for 1989 show a decrease of about 1500 fatalities from 1988. A disproportionate share of these fatalities occurred on Federal-Aid Secondary and non-Federal-Aid rural highways. The overall fatality rate per 100 million vehicle miles of travel was 2.16, which was lower than the record low of 2.32 set in 1988.



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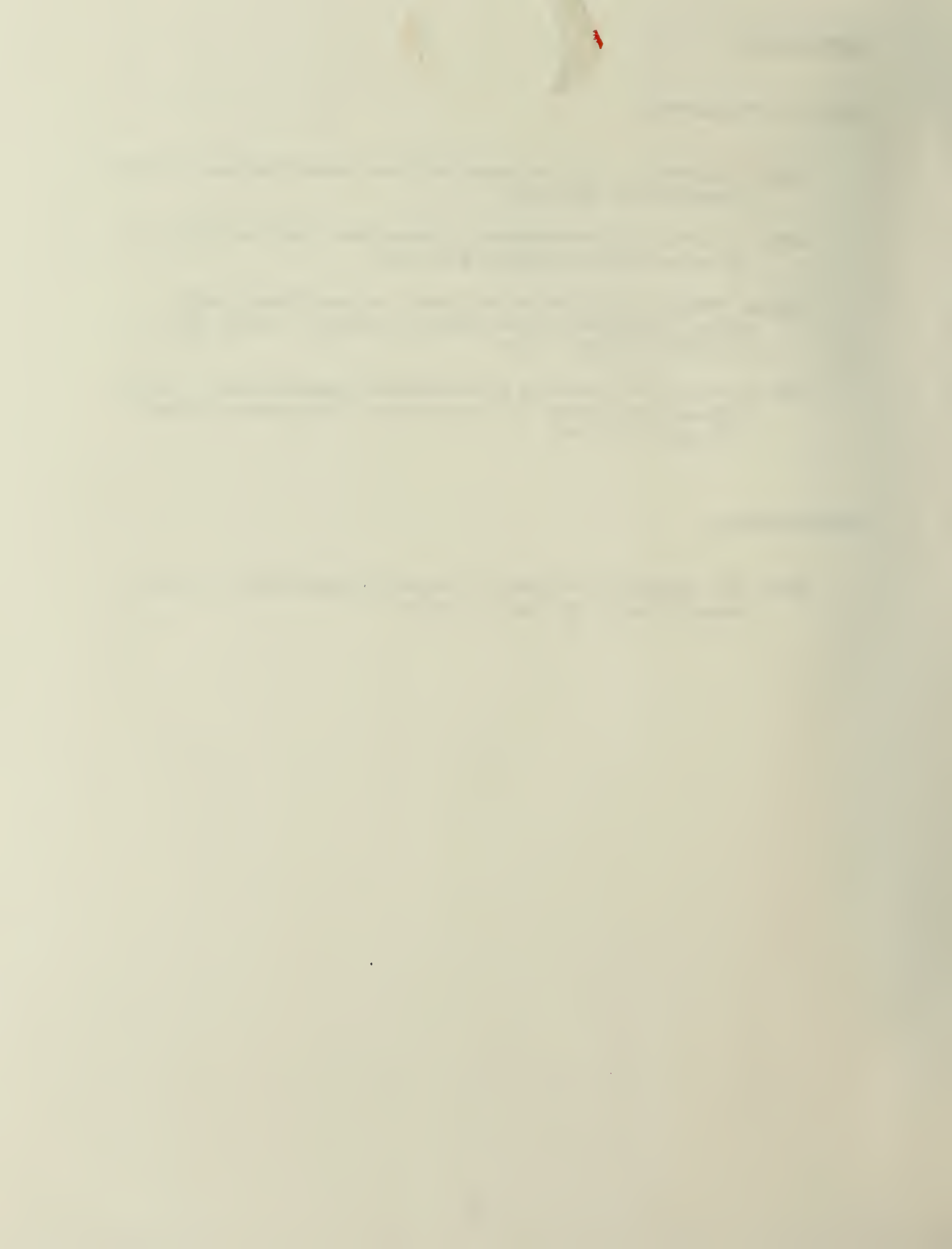
National Highway Traffic Safety Administration, "Highway Safety Needs Study - 1981 Update of 1976 Report to Congress," October 1981, DOT-HS-806 283, pp. 72-73.

Fee, Julie Anna, et al., "Interstate System Accident Research Study 1," Federal Highway Administration, U.S. Department of Transportation, October 1970, pp. 1-14, 15, 42.

### Provisional Rates:

Morin, D.A., "Application of Statistical Concepts to Accident Data," Highway Research Record 188, 1967, pp. 72-79.

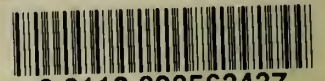






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